

For Jan Belovar

Access DB#

114375

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Sabiba Qaziz Examiner #: 74141 Date: 2/10/04
Art Unit: 1616 Phone Number 30-0622 Serial Number: 10/049980
Mail Box and Bldg/Room Location: 4C7A Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Fungicides

Inventors (please provide full names): Tracey Cook et al.

Earliest Priority Filing Date: 8/18/99 PCT/EP00/08268

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

RECEIVED
9 13 2004
STIC

Please search for the compounds of Cl 1
Elected sp. is comp 102

A' - L - A2

Please attached sheets

Thank you

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Jan</u>	NA Sequence (#) <u> </u>	STN <u>✓</u>
Searcher Phone #: <u>22504</u>	AA Sequence (#) <u> </u>	Dialog <u> </u>
Searcher Location: <u> </u>	Structure (#) <u>✓</u>	Questel/Orbit <u> </u>
Date Searcher Picked Up: <u>2/19</u>	Bibliographic <u> </u>	Dr.Link <u> </u>
Date Completed: <u>2/19</u>	Litigation <u> </u>	Lexis/Nexis <u> </u>
Searcher Prep & Review Time: <u> </u>	Fulltext <u> </u>	Sequence Systems <u> </u>
Clerical Prep Time: <u>30 + 60</u>	Patent Family <u> </u>	WWW/Internet <u> </u>
Online Time: <u> </u>	Other <u> </u>	Other (specify) <u> </u>

=> fil reg

FILE 'REGISTRY' ENTERED AT 17:45:25 ON 19 FEB 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6

DICTIONARY FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

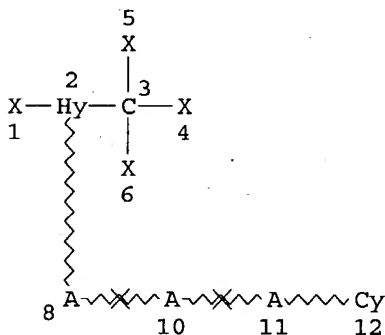
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sta que l15

L1 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 2

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E5 C E1 N AT 2

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

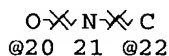
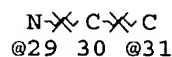
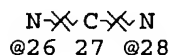
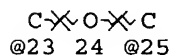
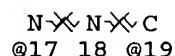
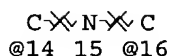
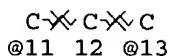
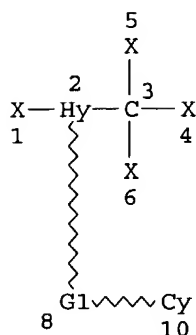
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L2 925618 SEA FILE=REGISTRY ABB=ON PLU=ON 46.156.30/RID AND NR>=2

L4 1334 SEA FILE=REGISTRY SUB=L2 SSS FUL L1

L5 STR



VAR G1=11-2 13-10/14-2 16-10/17-2 19-10/20-2 22-10/23-2 25-10/26-2 28-10/
29-2 31-10/19-2 17-10

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 2

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E5 C E1 N AT 2

GRAPH ATTRIBUTES:

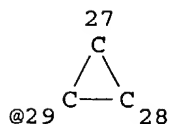
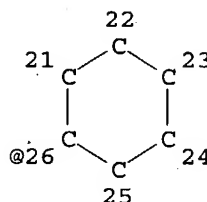
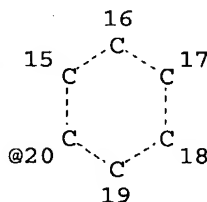
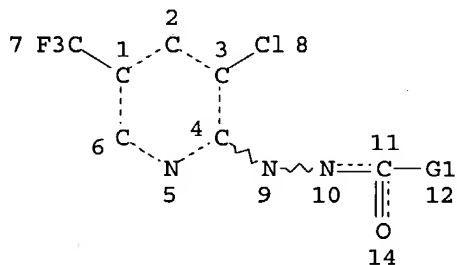
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE

L7 1166 SEA FILE=REGISTRY SUB=L4 SSS FUL L5

L8 STR



VAR G1=20/26/29

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 15 21

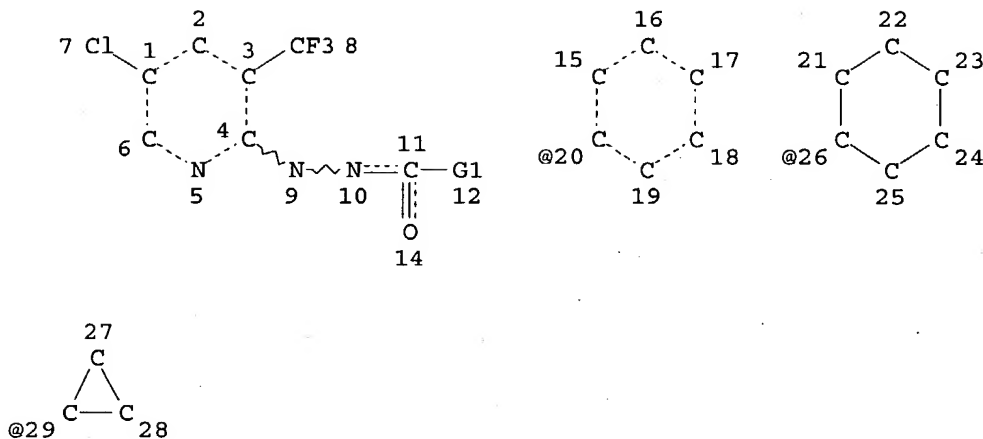
NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE

Table pages
24/25

L9

STR



VAR G1=20/26/29
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

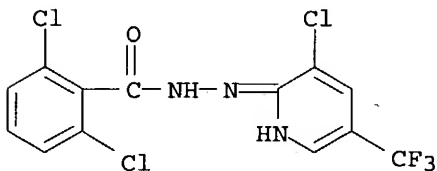
GRAPH ATTRIBUTES:
 RSPEC 15 21
 NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE

L12 38 SEA FILE=REGISTRY SUB=L7 SSS FUL (L8 OR L9)
 L13 35 SEA FILE=REGISTRY ABB=ON PLU=ON L12 AND 2/NR
 L14 3 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND C13H7CL3F3N3O
 L15 1 SEA FILE=REGISTRY ABB=ON PLU=ON L14 AND 326807-66-3/BI

=> d ide can l15.

L15 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 326807-66-3 REGISTRY
 CN Benzoic acid, 2,6-dichloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C13 H7 Cl3 F3 N3 O
 SR CA
 LC STN Files: CA, CAPLUS, CHEMCATS



Species

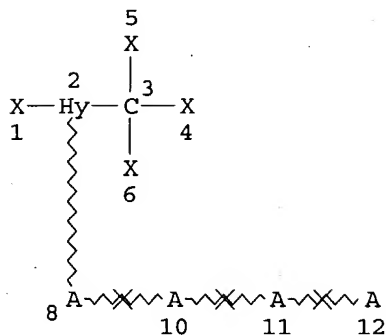
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

=> d sta que 146

L2 925618 SEA FILE=REGISTRY ABB=ON PLU=ON 46.156.30/RID AND NR>=2
 L44 STR



NODE ATTRIBUTES:

NSPEC IS R AT 12
 DEFAULT MLEVEL IS ATOM
 GGCAT IS MCY UNS AT 2
 DEFAULT ECLEVEL IS LIMITED
 ECOUNT IS E5 C E1 N AT 2

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L46 8306 SEA FILE=REGISTRY SUB=L2 SSS FUL L44

100.0% PROCESSED 34867 ITERATIONS
 SEARCH TIME: 00.00.01

8306 ANSWERS

=> d his

(FILE 'HOME' ENTERED AT 17:10:49 ON 19 FEB 2004)
 SET COST OFF

FILE 'REGISTRY' ENTERED AT 17:11:06 ON 19 FEB 2004

L1 STR
 L2 925618 S 46.156.30/RID AND NR>=2
 L3 50 S L1 SAM SUB=L2
 L4 1334 S L1 FUL SUB=L2
 SAV L4 QAZI049/A
 L5 STR L1
 L6 50 S L5 SAM SUB=L4
 L7 1166 S L5 FUL SUB=L4
 SAV L7 QAZI049A/A
 L8 STR
 L9 STR L8
 L10 0 S L8 SAM SUB=L7
 L11 2 S L9 SAM SUB=L7
 L12 38 S (L8 OR L9) FUL SUB=L7
 SAV L12 QAZI049B/A
 L13 35 S L12 AND 2/NR
 L14 3 S L13 AND C13H7CL3F3N3O
 SEL RN 2
 L15 1 S L14 AND E1
 L16 34 S L13 NOT L15

L17 12 S L7 AND 13/C AND 3/CL AND 3/F AND 3/N AND 1/O AND 2/NR
L18 7 S L17 AND C6/ES
L19 4 S L18 NOT L14

FILE 'HCAOLD' ENTERED AT 17:30:56 ON 19 FEB 2004

L20 0 S L15

FILE 'USPATFULL, USPAT2' ENTERED AT 17:31:01 ON 19 FEB 2004

L21 0 S L15

FILE 'HCAPLUS' ENTERED AT 17:31:08 ON 19 FEB 2004

L22 1 S L15
E COOKE T/AU
L23 74 S E3-E12,E34,E35
E HARDY D/AU
L24 214 S E3-E18,E23-E34
E MOLONEY B/AU
L25 16 S E5-E7
E O MAHONY M/AU
L26 41 S E3,E5,E10,E11
E OMAHONY M/AU
E MAHONY M/AU
L27 9 S E3,E5
E PETTETT M/AU
L28 6 S E4-E6
E PATEL G/AU
L29 412 S E3-E19
L30 13 S E59-E61
E SCHNATTERER S/AU
L31 16 S E4
E AVENTIS/PA,CS
L32 1977 S E3,E4
L33 2 S L13
L34 4 S L12
L35 1 S L23-L32 AND L33
L36 1 S L23-L32 AND L34
L37 1 S (WO2000-EP8268 OR GB99-19558)/AP,PRN
L38 1 S L23-L36 AND L37
SEL RN

FILE 'REGISTRY' ENTERED AT 17:35:57 ON 19 FEB 2004

L39 214 S E1-E214
L40 180 S L39 AND L4
L41 180 S L7 AND L40
L42 34 S L39 NOT L41
L43 STR L1
L44 STR L43
L45 50 S L44 SAM SUB=L2
L46 8306 S L44 FUL SUB=L2
SAV L46 QAZI049C/A
L47 190 S L39 AND L46
L48 24 S L39 NOT L47
L49 1 S L48 AND IDS/CI
L50 191 S L47,L49
L51 190 S L50 NOT L15

FILE 'HCAPLUS' ENTERED AT 17:41:47 ON 19 FEB 2004

L52 3 S L51
L53 2 S L23-L32 AND L52
L54 3 S L52,L53
L55 3 S L33,L34 NOT L22
L56 5 S L52-L55

FILE 'REGISTRY' ENTERED AT 17:45:25 ON 19 FEB 2004

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 17:45:58 ON 19 FEB 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 19 Feb 2004 VOL 140 ISS 8

FILE LAST UPDATED: 18 Feb 2004 (20040218/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all hitstr l22

L22 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:137193 HCAPLUS

DN 134:178467

ED Entered STN: 25 Feb 2001

TI Preparation of pyridine derivatives as phytopathogenic fungicides

IN Cooke, Tracey; Hardy, David; Moloney, Brian Anthony; O'Mahony, Mary Josephine; Pettett, Michael George; Patel, Gita; Schnatterer, Stefan

PA Aventis CropScience GmbH, Germany

SO PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D213-61

ICS C07D213-89; C07D405-12; C07D213-77; C07D401
C07D213-64; C07D409-12; C07D417-12; C07D498

A01N043-40

CC 27-16 (Heterocyclic Compounds (One Hetero Atom))

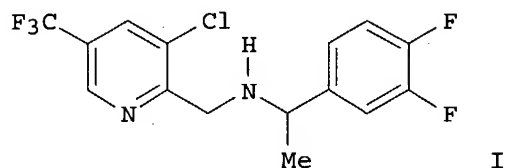
Section cross-reference(s): 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001012604	A1	20010222	WO 2000-EP8268	20000811
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	BR 2000013369	A	20020507	BR 2000-13369	20000811
	EP 1204642	A1	20020515	EP 2000-954651	20000811
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, IE, SI, LT, LV, FI, RO, MK, CY, AL			

One ref.
for species

JP 2003507368 T2 20030225 JP 2001-517502 20000811
 PRAI GB 1999-19558 A 19990818
 WO 2000-EP8268 W 20000811
 OS MARPAT 134:178467
 GI



AB The title compds. A1LA2 [A1 = (un)substituted 2-pyridyl or its N-oxide; Ar2 = (un)substituted heterocyclyl, carbocyclyl; L = a 3-atom linker selected from CHR1NR3CHR2, NR3NR4C:X, C:XNR3CHR1, etc. (wherein A1 is attached to the left hand side of linker L); R1, R2 = CN, NO2, halo, etc.; R3, R4 = CN, NO2, alkyl, etc.; any of R1-R4, together with the interconnecting atoms, can form a 5-6 membered ring with any other R1-R4, or any R1-R4, together with the interconnecting atoms can form a 5-6 membered ring with A2; X = O, S, N(alkyl), etc.], useful as phytopathogenic fungicides, were prepared Thus, reacting 1-(3,4-difluorophenyl)-1-ethanamine with 3-chloro-5-(trifluoromethyl)pyridine-2-carboxaldehyde in the presence of Et3N in CH(OMe)3 followed by addition of NaBH3CN/THF and AcOH afforded the title compound I which showed moderate to total control against Leptosphaeria nodorum at 500 ppm or less.

ST pyridine prepn agrochem fungicide
 IT Fungicides

(agrochem.; preparation of pyridine derivs. as phytopathogenic fungicides)

IT 326807-13-0P 326808-86-0P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of pyridine derivs. as phytopathogenic fungicides)

IT	116389-04-9P	326476-24-8P	326807-14-1P	326807-15-2P	326807-16-3P
	326807-17-4P	326807-18-5P	326807-19-6P	326807-20-9P	326807-21-0P
	326807-22-1P	326807-23-2P	326807-24-3P	326807-25-4P	326807-26-5P
	326807-27-6P	326807-28-7P	326807-29-8P	326807-30-1P	326807-31-2P
	326807-32-3P	326807-33-4P	326807-34-5P	326807-35-6P	326807-36-7P
	326807-37-8P	326807-38-9P	326807-39-0P	326807-40-3P	326807-41-4P
	326807-42-5P	326807-43-6P	326807-44-7P	326807-45-8P	326807-46-9P
	326807-47-0P	326807-48-1P	326807-49-2P	326807-50-5P	326807-51-6P
	326807-52-7P	326807-53-8P	326807-54-9P	326807-55-0P	326807-56-1P
	326807-57-2P	326807-58-3P	326807-59-4P	326807-60-7P	326807-61-8P
	326807-62-9P	326807-63-0P	326807-64-1P	326807-65-2P	
	326807-66-3P	326807-67-4P	326807-68-5P	326807-69-6P	
	326807-70-9P	326807-71-0P	326807-72-1P	326807-73-2P	326807-74-3P
	326807-75-4P	326807-76-5P	326807-77-6P	326807-78-7P	326807-79-8P
	326807-80-1P	326807-81-2P	326807-82-3P	326807-83-4P	326807-84-5P
	326807-85-6P	326807-86-7P	326807-87-8P	326807-88-9P	326807-89-0P
	326807-90-3P	326807-91-4P	326807-92-5P	326807-93-6P	326807-94-7P
	326807-95-8P	326807-96-9P	326807-97-0P	326807-98-1P	326807-99-2P
	326808-00-8P	326808-01-9P	326808-02-0P	326808-03-1P	326808-04-2P
	326808-05-3P	326808-06-4P	326808-07-5P	326808-08-6P	326808-09-7P
	326808-10-0P	326808-11-1P	326808-12-2P	326808-13-3P	326808-14-4P
	326808-15-5P	326808-16-6P	326808-17-7P	326808-18-8P	326808-19-9P
	326808-20-2P	326808-21-3P	326808-22-4P	326808-23-5P	326808-24-6P
	326808-25-7P	326808-26-8P	326808-27-9P	326808-28-0P	326808-29-1P

326808-30-4P	326808-31-5P	326808-32-6P	326808-33-7P	326808-34-8P
326808-35-9P	326808-36-0P	326808-37-1P	326808-38-2P	326808-39-3P
326808-40-6P	326808-41-7P	326808-42-8P	326808-43-9P	326808-44-0P
326808-45-1P	326808-46-2P	326808-47-3P	326808-48-4P	326808-49-5P
326808-50-8P	326808-51-9P	326808-52-0P	326808-53-1P	326808-54-2P
326808-55-3P	326808-56-4P	326808-57-5P	326808-58-6P	326808-59-7P
326808-60-0P	326808-61-1P	326808-62-2P	326808-63-3P	326808-64-4P
326808-66-6P	326808-67-7P	326808-68-8P	326808-69-9P	326808-70-2P
326808-71-3P	326808-72-4P	326808-73-5P	326808-74-6P	326808-75-7P
326808-76-8P	326808-77-9P	326808-78-0P	326808-79-1P	326808-80-4P
326808-81-5P	326808-82-6P	326808-83-7P	326808-84-8P	326808-85-9P
326808-87-1P	326808-88-2P	326808-89-3P	326808-90-6P	326808-91-7P
326808-93-9P	326808-95-1P	326808-97-3P	326808-99-5P	326809-00-1P
326809-01-2P	326809-02-3P	326809-03-4P	326809-04-5P	326809-05-6P
326809-06-7P	326809-07-8P	326812-96-8P		

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of pyridine derivs. as phytopathogenic fungicides)

IT 86-55-5, 1-Naphthoic acid 89-98-5, 2-Chlorobenzaldehyde 118-91-2, 2-Chlorobenzoic acid 608-31-1, 2,6-Dichloroaniline 614-21-1, 2-Nitroacetophenone 1777-82-8, 2,4-Dichlorobenzyl alcohol 3034-19-3, 2-Nitrophenylhydrazine 3886-69-9 4659-45-4, 2,6-Dichlorobenzoyl chloride 69045-84-7, 2,3-Dichloro-5-trifluoromethylpyridine 70591-20-7, [(Diphenylmethylene)amino]methyl cyanide 75408-89-8, 4-Acetylbiphenyl oxime 79456-26-1, 2-Amino-3-chloro-5-trifluoromethylpyridine 89570-82-1 118386-83-7 175277-50-6, 3-Chloro-5-trifluoromethylpyridine-2-carboxaldehyde 175277-52-8, 3-Chloro-2-(chloromethyl)-5-trifluoromethylpyridine 276875-21-9, 1-(3,4-Difluorophenyl)-1-ethanamine 326809-08-9 326809-09-0 326809-10-3, 2-(3-Bromo-4-methoxyphenyl)-1H-imidazole

RL: RCT (Reactant); RACT (Reactant or reagent)

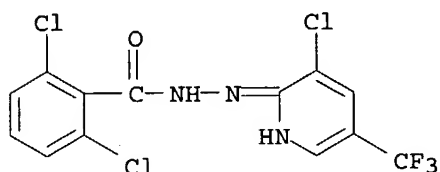
(preparation of pyridine derivs. as phytopathogenic fungicides)

RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Agrevo Uk Ltd; GB 2307177 A 1997 HCAPLUS
- (2) Agrevo Uk Ltd; WO 9907687 A 1999 HCAPLUS
- (3) Anon; PATENT ABSTRACTS OF JAPAN 1983, V007(114), PC-166
- (4) Anon; PATENT ABSTRACTS OF JAPAN 1989, V013(379), PC-628
- (5) Anon; PATENT ABSTRACTS OF JAPAN 1990, V014(310), PC-0736
- (6) Anon; PATENT ABSTRACTS OF JAPAN 1992, V016(148), PC-0928
- (7) Anon; PATENT ABSTRACTS OF JAPAN 1995, V1995(04)
- (8) Basf Ag; EP 0350691 A 1990 HCAPLUS
- (9) Basf Ag; WO 9710215 A 1997 HCAPLUS
- (10) Bayer Ag; EP 0573883 A 1993 HCAPLUS
- (11) Briggs, G; WO 9850352 A 1998 HCAPLUS
- (12) Ciba Geigy Ag; EP 0288976 A 1988 HCAPLUS
- (13) Ciba Geigy Ag; EP 0577555 A 1994 HCAPLUS
- (14) Dow Chemical Co; GB 2068365 A 1981 HCAPLUS
- (15) Dow Chemical Co; EP 0287691 A 1988 HCAPLUS
- (16) Hamprecht, G; WO 9842671 A 1998 HCAPLUS
- (17) Ihara Chemical Ind Co; EP 0648752 A 1995 HCAPLUS
- (18) Ishihara Sangyo Kaisha Ltd; JP 02104575 A 1990 HCAPLUS
- (19) Ishihara Sangyo Kaisha Ltd; JP 07025853 A 1995 HCAPLUS
- (20) Ishihara Sangyo Kk; JP 58035174 A 1983 HCAPLUS
- (21) Kyowa Hakko Kogyo Kk; EP 0882717 A 1998 HCAPLUS
- (22) La Roche, H; EP 0270061 A 1988 HCAPLUS
- (23) Minn; HCAPLUS
- (24) Minn; SYNLETT 1991, 2, P115 HCAPLUS
- (25) Mitsubishi Petrochem Co Ltd; JP 04005282 A 1992 HCAPLUS
- (26) Mitsui Petrochem Ind Ltd; JP 01131146 A 1989 HCAPLUS
- (27) Moloney Brian Anthony; WO 9942447 A 1999 HCAPLUS
- (28) Sumitomo Chemical Co; EP 0469711 A 1992 HCAPLUS

(29) Sumitomo Chemical Co; EP 0648729 A 1995 HCAPLUS
 (30) Uniroyal Chem Co Inc; WO 9207848 A 1992 HCAPLUS
 IT 326807-66-3P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of pyridine derivs. as phytopathogenic fungicides)
 RN 326807-66-3 HCAPLUS
 CN Benzoic acid, 2,6-dichloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



=> => d 156 all fhitstr

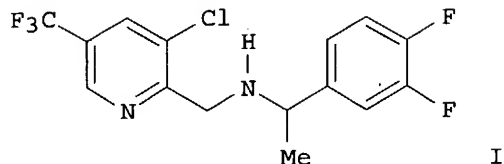
L56 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:137193 HCAPLUS
 DN 134:178467
 ED Entered STN: 25 Feb 2001
 TI Preparation of pyridine derivatives as phytopathogenic fungicides
 IN Cooke, Tracey; Hardy, David; Moloney, Brian
 Anthony; O'Mahony, Mary Josephine; Pettett, Michael
 George; Patel, Gita; Schnatterer, Stefan
 PA Aventis CropScience GmbH, Germany
 SO PCT Int. Appl., 57 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM C07D213-61
 ICS C07D213-89; C07D405-12; C07D213-77; C07D401-12
 C07D213-64; C07D409-12; C07D417-12; C07D498-04
 A01N043-40
 CC 27-16 (Heterocyclic Compounds (One Hetero Atom))
 Section cross-reference(s): 5

Oct - EP00-8268

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001012604	A1	20010222	WO 2000-EP8268	20000811
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 2000013369	A	20020507	BR 2000-13369	20000811
EP 1204642	A1	20020515	EP 2000-954651	20000811
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003507368	T2	20030225	JP 2001-517502	20000811
PRAI GB 1999-19558	A	19990818		
WO 2000-EP8268	W	20000811		

OS MARPAT 134:178467
GI



AB The title compds. A1LA2 [A1 = (un)substituted 2-pyridyl or its N-oxide; Ar2 = (un)substituted heterocyclyl, carbocyclyl; L = a 3-atom linker selected from CHR1NR3CHR2, NR3NR4C:X, C:XNR3CHR1, etc. (wherein A1 is attached to the left hand side of linker L); R1, R2 = CN, NO2, halo, etc.; R3, R4 = CN, NO2, alkyl, etc.; any of R1-R4, together with the interconnecting atoms, can form a 5-6 membered ring with any other R1-R4, or any R1-R4, together with the interconnecting atoms can form a 5-6 membered ring with A2; X = O, S, N(alkyl), etc.], useful as phytopathogenic fungicides, were prepared Thus, reacting 1-(3,4-difluorophenyl)-1-ethanamine with 3-chloro-5-(trifluoromethyl)pyridine-2-carboxaldehyde in the presence of Et3N in CH(OMe)3 followed by addition of NaBH3CN/THF and AcOH afforded the title compound I which showed moderate to total control against Leptosphaeria nodorum at 500 ppm or less.

ST pyridine prepn agrochem fungicide
IT Fungicides
(agrochem.; preparation of pyridine derivs. as phytopathogenic fungicides)

IT 326807-13-0P 326808-86-0P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of pyridine derivs. as phytopathogenic fungicides)

IT 116389-04-9P 326476-24-8P 326807-14-1P
326807-15-2P 326807-16-3P 326807-17-4P
326807-18-5P 326807-19-6P 326807-20-9P
326807-21-0P 326807-22-1P 326807-23-2P
326807-24-3P 326807-25-4P 326807-26-5P
326807-27-6P 326807-28-7P 326807-29-8P
326807-30-1P 326807-31-2P 326807-32-3P
326807-33-4P 326807-34-5P 326807-35-6P
326807-36-7P 326807-37-8P 326807-38-9P
326807-39-0P 326807-40-3P 326807-41-4P
326807-42-5P 326807-43-6P 326807-44-7P
326807-45-8P 326807-46-9P 326807-47-0P
326807-48-1P 326807-49-2P 326807-50-5P
326807-51-6P 326807-52-7P 326807-53-8P
326807-54-9P 326807-55-0P 326807-56-1P
326807-57-2P 326807-58-3P 326807-59-4P
326807-60-7P 326807-61-8P 326807-62-9P
326807-63-0P 326807-64-1P 326807-65-2P
326807-66-3P 326807-67-4P 326807-68-5P
326807-69-6P 326807-70-9P 326807-71-0P
326807-72-1P 326807-73-2P 326807-74-3P
326807-75-4P 326807-76-5P 326807-77-6P
326807-78-7P 326807-79-8P 326807-80-1P
326807-81-2P 326807-82-3P 326807-83-4P
326807-84-5P 326807-85-6P 326807-86-7P
326807-87-8P 326807-88-9P 326807-89-0P
326807-90-3P 326807-91-4P 326807-92-5P

326807-93-6P 326807-94-7P 326807-95-8P
 326807-96-9P 326807-97-0P 326807-98-1P
 326807-99-2P 326808-00-8P 326808-01-9P
 326808-02-0P 326808-03-1P 326808-04-2P
 326808-05-3P 326808-06-4P 326808-07-5P
 326808-08-6P 326808-09-7P 326808-10-0P
 326808-11-1P 326808-12-2P 326808-13-3P
 326808-14-4P 326808-15-5P 326808-16-6P
 326808-17-7P 326808-18-8P 326808-19-9P
 326808-20-2P 326808-21-3P 326808-22-4P
 326808-23-5P 326808-24-6P 326808-25-7P
 326808-26-8P 326808-27-9P 326808-28-0P
 326808-29-1P 326808-30-4P 326808-31-5P
 326808-32-6P 326808-33-7P 326808-34-8P
 326808-35-9P 326808-36-0P 326808-37-1P
 326808-38-2P 326808-39-3P 326808-40-6P
 326808-41-7P 326808-42-8P 326808-43-9P
 326808-44-0P 326808-45-1P 326808-46-2P
 326808-47-3P 326808-48-4P 326808-49-5P
 326808-50-8P 326808-51-9P 326808-52-0P 326808-53-1P
 326808-54-2P 326808-55-3P 326808-56-4P
 326808-57-5P 326808-58-6P 326808-59-7P
 326808-60-0P 326808-61-1P 326808-62-2P
 326808-63-3P 326808-64-4P 326808-66-6P
 326808-67-7P 326808-68-8P 326808-69-9P
 326808-70-2P 326808-71-3P 326808-72-4P
 326808-73-5P 326808-74-6P 326808-75-7P
 326808-76-8P 326808-77-9P 326808-78-0P
 326808-79-1P 326808-80-4P 326808-81-5P
 326808-82-6P 326808-83-7P 326808-84-8P
 326808-85-9P 326808-87-1P 326808-88-2P
 326808-89-3P 326808-90-6P 326808-91-7P
 326808-93-9P 326808-95-1P 326808-97-3P
 326808-99-5P 326809-00-1P 326809-01-2P
 326809-02-3P 326809-03-4P 326809-04-5P
 326809-05-6P 326809-06-7P 326809-07-8P
 326812-96-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of pyridine derivs. as phytopathogenic fungicides)

IT 86-55-5, 1-Naphthoic acid 89-98-5, 2-Chlorobenzaldehyde 118-91-2,
 2-Chlorobenzoic acid 608-31-1, 2,6-Dichloroaniline 614-21-1,
 2-Nitroacetophenone 1777-82-8, 2,4-Dichlorobenzyl alcohol 3034-19-3,
 2-Nitrophenylhydrazine 3886-69-9 4659-45-4, 2,6-Dichlorobenzoyl
 chloride 69045-84-7, 2,3-Dichloro-5-trifluoromethylpyridine
 70591-20-7, [(Diphenylmethylene)amino]methyl cyanide 75408-89-8,
 4-Acetylbiphenyl oxime 79456-26-1, 2-Amino-3-chloro-5-
 trifluoromethylpyridine 89570-82-1 118386-83-7 175277-50-6,
 3-Chloro-5-trifluoromethylpyridine-2-carboxaldehyde 175277-52-8,
 3-Chloro-2-(chloromethyl)-5-trifluoromethylpyridine 276875-21-9,
 1-(3,4-Difluorophenyl)-1-ethanamine 326809-08-9 326809-09-0
 326809-10-3, 2-(3-Bromo-4-methoxyphenyl)-1H-imidazole

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pyridine derivs. as phytopathogenic fungicides)

RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Agrevo Uk Ltd; GB 2307177 A 1997 HCAPLUS
- (2) Agrevo Uk Ltd; WO 9907687 A 1999 HCAPLUS
- (3) Anon; PATENT ABSTRACTS OF JAPAN 1983, V007(114), PC-166
- (4) Anon; PATENT ABSTRACTS OF JAPAN 1989, V013(379), PC-628
- (5) Anon; PATENT ABSTRACTS OF JAPAN 1990, V014(310), PC-0736
- (6) Anon; PATENT ABSTRACTS OF JAPAN 1992, V016(148), PC-0928

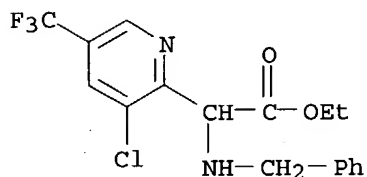
- (7) Anon; PATENT ABSTRACTS OF JAPAN 1995, V1995(04)
- (8) Basf Ag; EP 0350691 A 1990 HCAPLUS
- (9) Basf Ag; WO 9710215 A 1997 HCAPLUS
- (10) Bayer Ag; EP 0573883 A 1993 HCAPLUS
- (11) Briggs, G; WO 9850352 A 1998 HCAPLUS
- (12) Ciba Geigy Ag; EP 0288976 A 1988 HCAPLUS
- (13) Ciba Geigy Ag; EP 0577555 A 1994 HCAPLUS
- (14) Dow Chemical Co; GB 2068365 A 1981 HCAPLUS
- (15) Dow Chemical Co; EP 0287691 A 1988 HCAPLUS
- (16) Hamprecht, G; WO 9842671 A 1998 HCAPLUS
- (17) Ihara Chemical Ind Co; EP 0648752 A 1995 HCAPLUS
- (18) Ishihara Sangyo Kaisha Ltd; JP 02104575 A 1990 HCAPLUS
- (19) Ishihara Sangyo Kaisha Ltd; JP 07025853 A 1995 HCAPLUS
- (20) Ishihara Sangyo Kk; JP 58035174 A 1983 HCAPLUS
- (21) Kyowa Hakko Kogyo Kk; EP 0882717 A 1998 HCAPLUS
- (22) La Roche, H; EP 0270061 A 1988 HCAPLUS
- (23) Minn; HCAPLUS
- (24) Minn; SYNLETT 1991, 2, P115 HCAPLUS
- (25) Mitsubishi Petrochem Co Ltd; JP 04005282 A 1992 HCAPLUS
- (26) Mitsui Petrochem Ind Ltd; JP 01131146 A 1989 HCAPLUS
- (27) Moloney Brian Anthony; WO 9942447 A 1999 HCAPLUS
- (28) Sumitomo Chemical Co; EP 0469711 A 1992 HCAPLUS
- (29) Sumitomo Chemical Co; EP 0648729 A 1995 HCAPLUS
- (30) Uniroyal Chem Co Inc; WO 9207848 A 1992 HCAPLUS

IT 326807-13-0P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of pyridine derivs. as phytopathogenic fungicides)

RN 326807-13-0 HCAPLUS

CN 2-Pyridineacetic acid, 3-chloro- α -[(phenylmethyl)amino]-5-(trifluoromethyl)-, ethyl ester (9CI) (CA INDEX NAME)



=> d 156 all 2-5 hitstr

L56 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:136944 HCAPLUS

DN 134:174247

ED Entered STN: 25 Feb 2001

TI Preparation of fungicidal nitrogen compounds.

IN **Cooke, Tracey**; Ekwuru, Tennyson; **Hardy, David**;
Millward, Peter; **Moloney, Brian**; Pettinger, Andrew; Thomas,
Peter Stanley; Turner, Richar Michael

PA Aventis CropScience GmbH, Germany

SO PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A01N043-40

ICS A01N043-82; A01N043-80; A01N043-54; A01N043-56; A01N043-90;

A01N043-50; A01N043-78; A01N043-42; A01N043-60; A01N053-00;
A01N047-38; A01N047-40; A01N047-24

CC 5-2 (Agrochemical Bioregulators)

Section cross-reference(s): 27

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001011966	A1	20010222	WO 2000-EP8269	20000811
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	BR 2000013367	A	20020507	BR 2000-13367	20000811
	EP 1204322	A1	20020515	EP 2000-956481	20000811
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	JP 2003506466	T2	20030218	JP 2001-516329	20000811
	US 6630495	B1	20031007	US 2002-49981	20020722
PRAI	GB 1999-19588	A	19990818		
	WO 2000-EP8269	W	20000811		
OS	MARPAT 134:174247				
AB	The fungicidal nitrogen compds. A1CR1R2NR3LA2 and A1CR1R2N:CYA2 [A1 = (un)unsubstituted 2-pyridyl or its N-oxide; A2 = (un)substituted heterocyclyl or carbocyclyl; R1, R2 = alkyl, alkenyl, cyano, nitro, halo, etc.; L = CO, CS, SO2, etc., Y = halo, alkoxy, alkylthio, etc.] are prepared				
ST	fungicide nitrogen compd prepn				
IT	6635-41-2P, 2-Nitrobenzaldehyde		35447-75-7P	326476-24-8P	
	326476-25-9P	326476-26-0P	326476-48-6P	326476-84-0P	
	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)				
	(intermediate in preparation of amide fungicide)				
IT	164341-60-0P	326475-66-5P	326475-67-6P	326475-68-7P	326475-69-8P
	326475-70-1P	326475-71-2P	326475-72-3P	326475-73-4P	326475-74-5P
	326475-75-6P	326475-76-7P	326475-77-8P	326475-78-9P	326475-79-0P
	326475-80-3P	326475-81-4P	326475-82-5P	326475-83-6P	326475-84-7P
	326475-85-8P	326475-86-9P	326475-87-0P	326475-88-1P	326475-89-2P
	326475-90-5P	326475-91-6P	326475-92-7P	326475-93-8P	326475-94-9P
	326475-95-0P	326475-96-1P	326475-97-2P	326475-98-3P	326475-99-4P
	326476-00-0P	326476-01-1P	326476-02-2P	326476-03-3P	326476-04-4P
	326476-05-5P	326476-06-6P	326476-07-7P	326476-08-8P	326476-09-9P
	326476-10-2P	326476-11-3P	326476-12-4P	326476-13-5P	326476-14-6P
	326476-15-7P	326476-16-8P	326476-17-9P	326476-18-0P	326476-19-1P
	326476-20-4P	326476-21-5P	326476-22-6P	326476-23-7P	326476-27-1P
	326476-28-2P	326476-29-3P	326476-30-6P	326476-31-7P	326476-32-8P
	326476-33-9P	326476-34-0P	326476-35-1P	326476-36-2P	326476-37-3P
	326476-38-4P	326476-39-5P	326476-41-9P	326476-43-1P	326476-44-2P
	326476-45-3P	326476-46-4P	326476-47-5P	326476-50-0P	326476-51-1P
	326476-52-2P	326476-53-3P	326476-54-4P	326476-55-5P	326476-57-7P
	326476-59-9P	326476-61-3P	326476-62-4P	326476-63-5P	326476-65-7P
	326476-66-8P	326476-68-0P	326476-69-1P	326476-72-6P	326476-74-8P
	326476-76-0P	326476-78-2P	326476-80-6P	326476-82-8P	326476-86-2P
	326476-87-3P	326476-88-4P	326476-89-5P	326476-90-8P	326476-91-9P
	326476-92-0P	326476-93-1P	326476-94-2P	326476-95-3P	326476-96-4P
	326476-97-5P	326476-98-6P	326476-99-7P	326477-00-3P	326477-01-4P
	326477-02-5P	326477-03-6P	326477-04-7P	326477-05-8P	326477-06-9P
	326477-07-0P	326477-08-1P	326477-09-2P	326491-87-6P	
	RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)				

(preparation as fungicide)

IT 106-95-6, Allyl bromide, reactions 552-89-6, 2-Nitrobenzaldehyde
 5470-11-1, Hydroxylamine hydrochloride 16024-82-1 39920-37-1,
 2,6-Dichlorophenyl isocyanate 68182-81-0 69045-84-7,
 2,3-Dichloro-5-trifluoromethylpyridine 70591-20-7,
 (Diphenyl)methyleneaminoacetonitrile 154142-60-6 175277-74-4
 239112-70-0 326476-49-7 326477-10-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant in preparation of amide fungicide)

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Agrevo Uk Ltd; WO 9907687 A 1999 HCAPLUS
- (2) Ash, M; US 4423222 A 1983 HCAPLUS
- (3) Bayer Ag; EP 0334138 A 1989 HCAPLUS
- (4) Bayer Ag; WO 9708135 A 1997 HCAPLUS
- (5) Dainippon; JP 08-208615 A 1996 HCAPLUS
- (6) Mitsubishi; JP 07-173139 A 1995 HCAPLUS
- (7) Mitsubishi Chem Corp; EP 0726266 A 1996 HCAPLUS
- (8) Mitsubishi Chem Ind; EP 0329020 A 1989 HCAPLUS
- (9) Moloney, B; WO 9942447 A 1999 HCAPLUS
- (10) Takeda Chemical Industries Ltd; EP 0404190 A 1990 HCAPLUS
- (11) Tokuyama, S; JP 64-003162 A 1989 HCAPLUS
- (12) Torba, F; US 3609158 A 1971 HCAPLUS

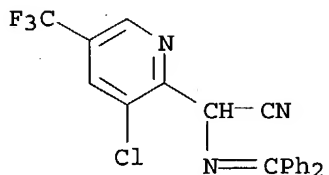
IT 326476-24-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate in preparation of amide fungicide)

RN 326476-24-8 HCAPLUS

CN 2-Pyridineacetonitrile, 3-chloro- α -[(diphenylmethylene)amino]-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)



L56 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1994:217743 HCAPLUS

DN 120:217743

ED Entered STN: 30 Apr 1994

TI Preparation of azinylhydroxybenzamides as herbicides and plant growth regulators

IN Luethy, Christoph; Fisher, Raymond

PA Ciba-Geigy A.-G., Switz.

SO PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D239-52

ICS A01N043-54; C07D403-12; C07D413-12; C07D409-12; C07D251-46;

C07D239-60

CC 28-19 (Heterocyclic Compounds (More Than One Hetero Atom))

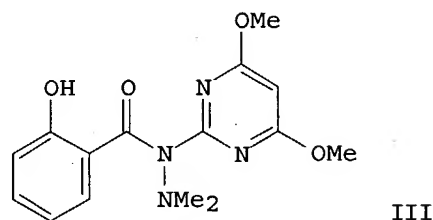
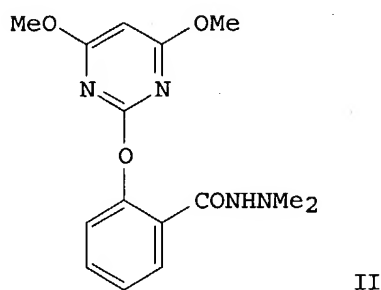
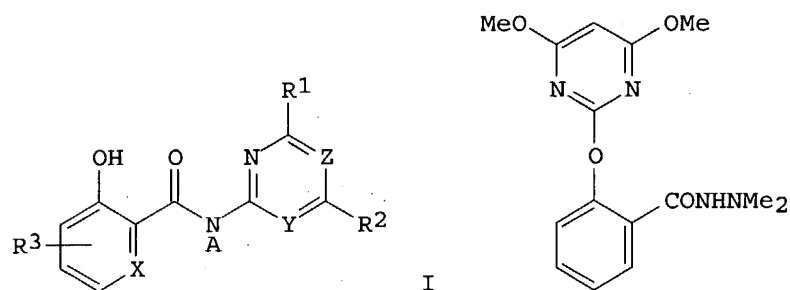
Section cross-reference(s): 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9324468	A1	19931209	WO 1993-EP1264	19930521

W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN,
MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, VN
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,
BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

AU 9343146 A1 19931230 AU 1993-43146 19930521
ZA 9303815 A 19931230 ZA 1993-3815 19930601
PRAI CH 1992-1771 19920602
WO 1993-EP1264 19930521
OS MARPAT 120:217743
GI



AB Title compds. [I; A = H, NR5R6, N:R7R8, OR9; X = N, CR4; Y = N, or if Z = N, may also = methine, fluoromethine, chloromethine; R1 = alkyl, alkynyl, cyclopropyl, chloromethyl, F2CH, F3C, MeO, EtO, alkylamino, Me2N, etc.; R2 = H, Me, F, Cl, alkoxy, difluoromethoxy, trifluoroethoxy, MeS, EtS; R3 = H, F, Cl, Me, MeO, EtO; R4 = H, F, Cl, Br, iodo, alkyl, CF3, vinyl, alkoxy, 2-propenyloxy, 2-propynyloxy, benzyloxy, PhO, triazolyl, thienyl, pyrazolyl, thienyl, etc.; R5 = H, alkyl; R6 = H, (substituted) alkyl, Ph, naphthyl, pyridyl, quinolyl, alkylcarbonyl, PhCO, alkylsulfonyl, PhSO2, etc.; R5R6N = (substituted) heterocyclyl; R7 = H, alkyl, alkylthio; R8 = alkyl, cycloalkyl, (substituted) Ph, alkoxy, alkylthio, alkoxy carbonyl, cyano; R7R8 = (CH2)4-5, SCH2CH2S; R9 = H, alkyl, alkenyl, alkynyl, carboxyalkyl, alkoxy carbonylalkyl, (substituted) PhCH2, Ph], were prepared. Thus, ether II was stirred with NaH in THF to give title compound III. Several I at 3 kg/ha preemergent gave 80-100% control of Echinochloa crus-galli, Avena fatua, Abutilon theoplasti, etc.

ST azinylhydroxybenzamide prepn herbicide; plant growth regulator

IT azinylhydroxybenzamide

IT Herbicides

(azinylhydroxybenzamides)

IT Plant hormones and regulators

RL: RCT (Reactant); RACT (Reactant or reagent)

(azinylhydroxybenzamides)

IT 153908-90-8P 153908-91-9P 153908-92-0P 153908-93-1P 153908-94-2P
153908-95-3P 153908-96-4P 153908-97-5P 153908-98-6P 153908-99-7P
153909-00-3P 153909-01-4P 153909-02-5P 153909-03-6P 153909-04-7P
153909-05-8P 153909-06-9P 153909-07-0P 153909-08-1P 153909-09-2P
153909-10-5P 153909-11-6P 153909-12-7P 153909-13-8P

153909-14-9P 153909-15-0P 153909-16-1P 153909-17-2P 153909-18-3P
 153909-19-4P 153909-20-7P 153909-21-8P 153909-22-9P 153909-23-0P
 153909-24-1P 153909-25-2P 153909-26-3P 153909-27-4P 153909-28-5P
 153909-29-6P 153909-30-9P 153909-31-0P 153909-32-1P 153909-61-6P
 153909-62-7P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of, as herbicide and plant growth regulator)

IT 141112-44-9P 141112-46-1P 141112-49-4P 141112-50-7P 141112-51-8P
 141112-54-1P 141112-55-2P 141112-66-5P 141112-68-7P 141112-72-3P
 141112-86-9P 141112-88-1P 144078-96-6P 153909-33-2P 153909-34-3P
 153909-35-4P 153909-36-5P 153909-37-6P 153909-38-7P 153909-39-8P
 153909-40-1P 153909-41-2P 153909-42-3P 153909-43-4P 153909-44-5P
 153909-45-6P 153909-46-7P 153909-47-8P 153909-48-9P 153909-49-0P
 153909-50-3P 153909-51-4P 153909-52-5P 153909-53-6P 153909-54-7P
 153909-55-8P 153909-56-9P 153909-57-0P 153909-58-1P 153909-59-2P
 153909-60-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as intermediate for azinylhydroxybenzamide herbicide and plant growth regulator)

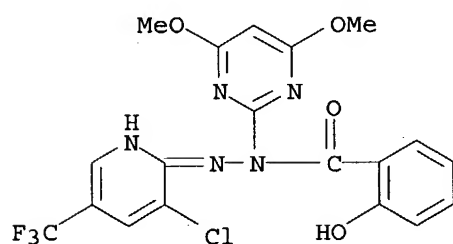
IT 593-56-6, O-Methylhydroxylamine hydrochloride 39943-64-1 110284-78-1
 113761-79-8 141112-41-6

RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, in preparation of azinylhydroxybenzamide herbicide and plant growth regulator)

IT 153909-12-7P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of, as herbicide and plant growth regulator)

RN 153909-12-7 HCAPLUS

CN Benzoic acid, 2-hydroxy-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-1-(4,6-dimethoxy-2-pyrimidinyl)hydrazide (9CI) (CA INDEX NAME)



L56 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1992:214529 HCAPLUS

DN 116:214529

ED Entered STN: 31 May 1992

TI Preparation of [(pyrimidin-2-yl)oxy]benzohydrazides and analogs as herbicides

IN Hiratsuka, Mitsunori; Hirata, Naonori; Saitoh, Kazuo; Shibata, Hideyuki

PA Sumitomo Chemical Co., Ltd., Japan

SO Eur. Pat. Appl., 83 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C07D239-60

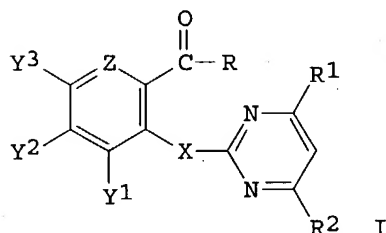
ICS C07D239-34; C07D239-38; C07D401-12; A01N043-54; C07D413-12;

C07D413-14

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 469711	A1	19920205	EP 1991-305672	19910624
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
	JP 05004971	A2	19930114	JP 1991-173257	19910617
	AU 9179136	A1	19920109	AU 1991-79136	19910620
	AU 638840	B2	19930708		
	CA 2046206	AA	19920106	CA 1991-2046206	19910704
	BR 9102835	A	19920204	BR 1991-2835	19910704
	US 5135563	A	19920804	US 1991-726218	19910705
PRAI	JP 1990-178967		19900705		
	JP 1991-124816		19910426		
OS	MARPAT 116:214529				
GI					



AB The title compds. [I; R1, R2 = C1-6 alkyl, (halo)C1-6 alkoxy, halo; X = O, S; Z = N, CY4; Y1-Y3 = H, halo, C1-6 alkyl, C1-6 alkoxy; Y4 = H, HO, HS, NO2, halo, C1-6 alkyl, etc.] [II; R = NR3NR4R5; R3 = H, C1-6 alkyl, (un)substituted Ph; R4, R5 = H, C1-6 alkyl, (halo)C1-6 alkoxy, (un)substituted Ph, PhCH2, (un)substituted pyridyl, etc.] were prepared by amidation of the parent carboxylic acids (II; R = OH). Thus, a prestirred mixture of 1.10 g 2-(4,6-dimethoxypyrimidin-2-yl)oxybenzoic acid and 0.77 g N,N'-carbonyldiimidazole in 10 mL THF was treated at 0°-5° by 0.72 g hydrazine monohydrate and the whole stirred for 30 min at that temperature to give 0.95 g title compound (I; R1 = R2 = MeO, Y1 = Y2 = Y3 = H,

X = O, Z = CH) (III; R = NHNH2). The latter at 2.5 g/a in a flooding treatment test in paddy field had activity 4 (the highest activity being 5 on a 0-5 scale) against barnyardgrass, bulrush and arrowhead, vs. activity 0 for the structural analog III (R = NH2). Approx. 62 I were prepared and 2 specific I are claimed.

ST pyrimidin-2-yl oxybenzohydrazide prepn herbicide; amidation
dimethoxypyrimidin-2-yl oxybenzoate hydrazine herbicide prepn
IT Herbicides

IT 7803-57-8, Hydrazine monohydrate 32957-26-9

RL: RCT (Reactant); RACT (Reactant or reagent)
(amidation by, of (pyrimidin-2-yl)oxybenzoic acid derivative, in preparation of herbicide)

IT 113761-80-1

RL: RCT (Reactant); RACT (Reactant or reagent)
(amidation of, by aminooxazolidinone, in preparation of herbicide)

IT 110284-78-1

RL: RCT (Reactant); RACT (Reactant or reagent)
(amidation of, by hydrazine, in preparation of herbicide)

IT 141112-93-8P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as herbicid)

IT 136187-62-7P 136187-63-8P 136187-64-9P 141112-38-1P 141112-39-2P
 141112-40-5P 141112-41-6P 141112-42-7P 141112-43-8P 141112-44-9P
 141112-45-0P 141112-46-1P 141112-47-2P 141112-48-3P 141112-49-4P
 141112-50-7P 141112-51-8P 141112-52-9P 141112-53-0P 141112-54-1P
 141112-55-2P 141112-56-3P 141112-57-4P 141112-58-5P 141112-59-6P
 141112-60-9P 141112-61-0P 141112-62-1P 141112-63-2P 141112-64-3P
141112-65-4P 141112-66-5P 141112-67-6P 141112-68-7P
 141112-69-8P 141112-70-1P 141112-71-2P 141112-72-3P 141112-73-4P
 141112-74-5P 141112-75-6P 141112-76-7P 141112-77-8P 141112-78-9P
 141112-79-0P 141112-80-3P 141112-81-4P 141112-82-5P
141112-83-6P 141112-84-7P 141112-85-8P 141112-86-9P
 141112-87-0P 141112-88-1P 141112-89-2P 141112-90-5P 141112-91-6P
 141112-92-7P 141126-07-0P 141126-08-1P

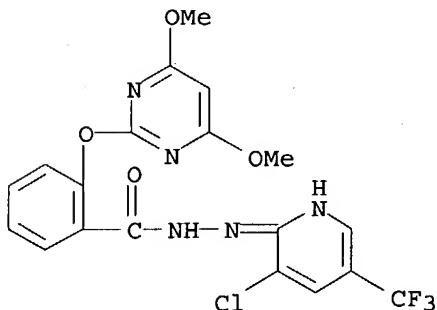
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of, as herbicide)

IT **141112-65-4P 141112-83-6P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of, as herbicide)

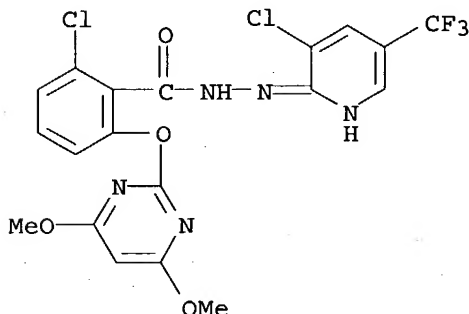
RN 141112-65-4 HCAPLUS

CN Benzoic acid, 2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



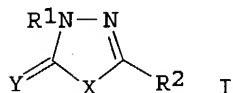
RN 141112-83-6 HCAPLUS

CN Benzoic acid, 2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



DN 109:124419
 ED Entered STN: 14 Oct 1988
 TI Preparation of five-membered heterocycles with three heteroatoms, as pesticides
 IN Luethy, Christoph
 PA Hoffmann-La Roche, F., und Co. A.-G., Switz.
 SO Eur. Pat. Appl., 59 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 IC ICM C07D271-10
 ICS C07D413-04; C07D249-12; C07D285-12; A01N043-653; A01N043-82
 CC 5-4 (Agrochemical Bioregulators)
 Section cross-reference(s): 1, 28
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 270061	A2	19880608	EP 1987-117698	19871130
	EP 270061	A3	19881117		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL				
	DK 8705709	A	19880602	DK 1987-5709	19871030
	ZA 8708811	A	19880727	ZA 1987-8811	19871124
	HU 45850	A2	19880928	HU 1987-5338	19871127
	JP 63154678	A2	19880627	JP 1987-303067	19871130
	BR 8706464	A	19880712	BR 1987-6464	19871130
	AU 8782036	A1	19880602	AU 1987-82036	19871201
	AU 602372	B2	19901011		
	US 4943583	A	19900724	US 1987-126804	19871201
PRAI	CH 1986-4785		19861201		
	CH 1987-3571		19870916		
OS	MARPAT 109:124419				
GI					



AB The title heterocycles I [R1 = (un)substituted Ph or pyridyl; R2 = substituted Ph; X = O, S, NR3, Y = S, O; R3 = Me, halomethyl, 1-propynyl] are prepared as insecticides and acaricides (no data). A mixture of 2-chloro-6-fluoro-N'-(α,α,α -trifluoro-o-tolyl)benzhydrazide, phosgene and toluene was refluxed for 16 h to give 5-(2-chloro-6-fluorophenyl)-3-(α,α,α -trifluoro-o-tolyl)-1,3,4-oxadiazol-2(3H)one. An emulsion concentrate comprised I 250, N-methyl-2-pyrrolidone 400, Ankopal N-100 75, and Ca dodecylbenzenesulfonate 25 g and Solvesso-100 to 1L.

ST pesticide oxadiazolone triazolone thiadiazolone prepn
 IT Pesticides
 (heterocycles with 3-heteroatoms, preparation of)

IT 75-44-5, Phosgene 463-71-8, Thiophosgene 503-38-8, Trichloromethyl chloroformate 541-41-3, Ethyl chloroformate
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclization by, of benzhydrazide derivative)

IT 107510-93-0P 107511-09-1P 107511-52-4P 116370-09-3P 116370-10-6P
 116370-11-7P 116370-12-8P 116388-94-4P 116388-95-5P 116388-96-6P
 116388-97-7P 116388-98-8P 116388-99-9P 116389-00-5P 116389-01-6P
 116389-02-7P 116389-03-8P 116389-04-9P 116389-05-0P
 116389-06-1P 116389-07-2P 116389-08-3P 116389-09-4P 116389-10-7P
 116389-11-8P 116389-12-9P 116389-13-0P 116389-14-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)

IT 116370-10-6P 116370-13-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of, with Et chloroformate)

IT 107511-52-4P 116370-12-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of, with phosgene)

IT 116370-13-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of, with thiophosgene)

IT 116370-09-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of, with trichloromethyl chloroformate)

IT 107511-03-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and methylation of)

IT 116370-14-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT 116369-81-4P 116369-82-5P 116369-83-6P 116369-84-7P 116369-85-8P
116369-86-9P 116369-87-0P 116369-88-1P 116369-89-2P 116369-90-5P
116369-91-6P 116369-92-7P 116369-93-8P 116369-94-9P 116369-95-0P
116369-96-1P 116369-97-2P 116369-98-3P 116369-99-4P 116370-00-4P
116370-01-5P 116370-02-6P 116370-03-7P 116370-04-8P 116370-05-9P
116370-06-0P 116370-07-1P 116370-08-2P 116370-15-1P 116400-41-0P
116400-42-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as pesticide)

IT 41052-75-9, 2-Chlorophenylhydrazine hydrochloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chlorofluorobenzoyl chloride)

IT 79455-63-3, 2-Chloro-6-fluorobenzoyl chloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chlorophenylhydrazine)

IT 365-34-4, o-Trifluoromethylphenylhydrazine
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with difluorobenzoyl chloride)

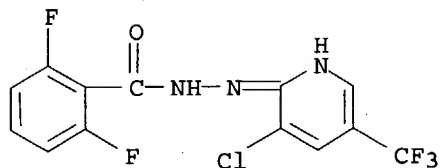
IT 3107-34-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with difluorobenzoyl fluoride)

IT 18063-02-0, 2,6-Difluorobenzoyl chloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with trifluoromethylphenylhydrazine)

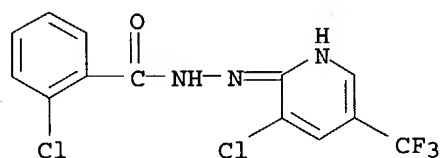
IT 13656-41-2, 2,6-Difluorobenzoyl fluoride
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with trifluorotolylhydrazine)

IT 116389-03-8P 116389-04-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)

RN 116389-03-8 HCAPLUS
CN Benzoic acid, 2,6-difluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



RN 116389-04-9 HCAPLUS
 CN Benzoic acid, 2-chloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



=> => fil reg

FILE 'REGISTRY' ENTERED AT 17:47:19 ON 19 FEB 2004
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6
 DICTIONARY FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

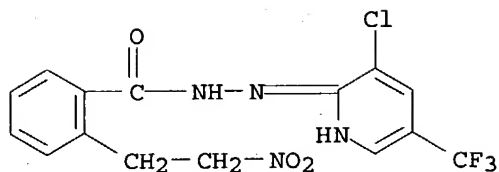
Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

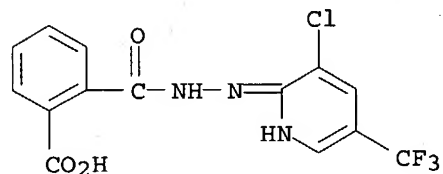
=> => d ide can tot.l57

L57 ANSWER 1 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 338770-92-6 REGISTRY
 CN Benzoic acid, 2-(2-nitroethyl)-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C15 H12 Cl F3 N4 O3
 SR Chemical Library
 LC STN Files: CHEMCATS



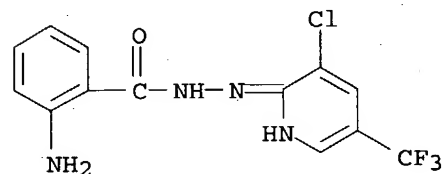
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L57 ANSWER 2 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 338770-54-0 REGISTRY
CN 1,2-Benzenedicarboxylic acid, mono[2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide] (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H9 Cl F3 N3 O3
SR Chemical Library
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

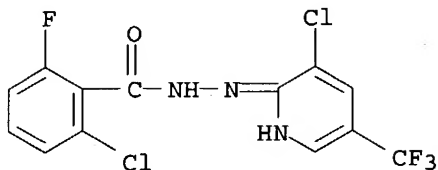
L57 ANSWER 3 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 338397-82-3 REGISTRY
CN Benzoic acid, 2-amino-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H10 Cl F3 N4 O
SR Chemical Library
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L57 ANSWER 4 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-90-3 REGISTRY
CN Benzoic acid, 2-chloro-6-fluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H7 Cl2 F4 N3 O

SR CA
LC STN Files: CA, CAPLUS

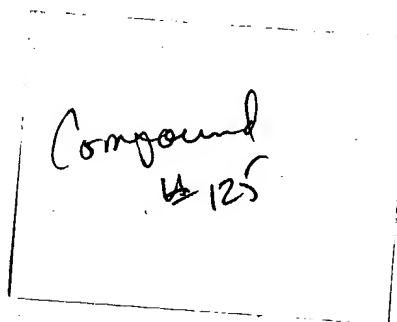
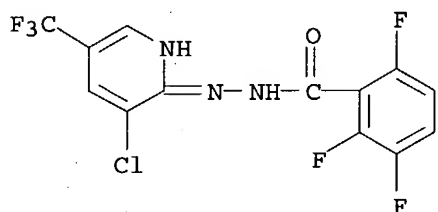


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 5 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-89-0 REGISTRY
CN Benzoic acid, 2,3,6-trifluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H6 Cl F6 N3 O
SR CA
LC STN Files: CA, CAPLUS

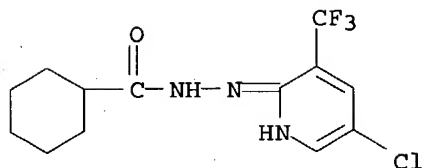


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 6 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-88-9 REGISTRY
CN Cyclohexanecarboxylic acid, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H15 Cl F3 N3 O
SR CA
LC STN Files: CA, CAPLUS

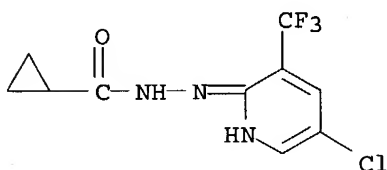


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 7 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-87-8 REGISTRY
CN Cyclopropanecarboxylic acid, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C10 H9 Cl F3 N3 O
SR CA
LC STN Files: CA, CAPLUS



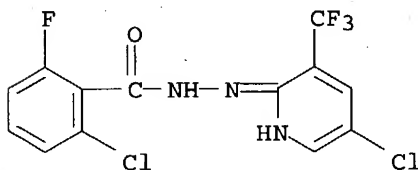
Compound
123

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 8 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-85-6 REGISTRY
CN Benzoic acid, 2-chloro-6-fluoro-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H7 Cl2 F4 N3 O
SR CA
LC STN Files: CA, CAPLUS



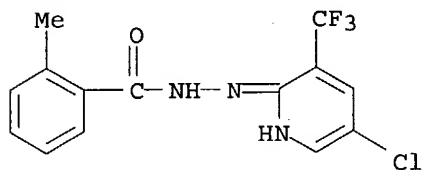
Compound
121

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 9 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-84-5 REGISTRY
CN Benzoic acid, 2-methyl-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H11 Cl F3 N3 O
SR CA
LC STN Files: CA, CAPLUS

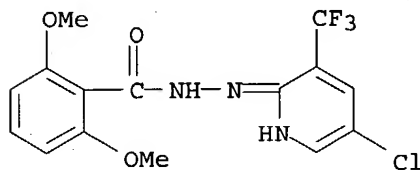


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 10 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-83-4 REGISTRY
CN Benzoic acid, 2,6-dimethoxy-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H13 Cl F3 N3 O3
SR CA
LC STN Files: CA, CAPLUS



Compound
#119

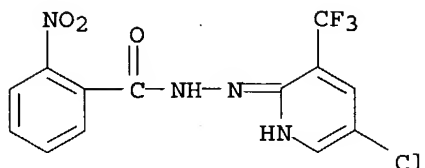
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 11 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-82-3 REGISTRY
CN Benzoic acid, 2-nitro-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD

MF C13 H8 Cl F3 N4 O3
SR CA
LC STN Files: CA, CAPLUS

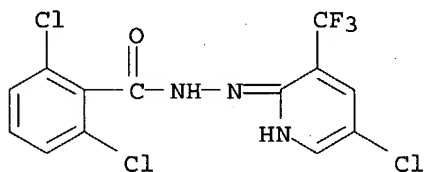


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 12 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-81-2 REGISTRY
CN Benzoic acid, 2,6-dichloro-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H7 Cl3 F3 N3 O
SR CA
LC STN Files: CA, CAPLUS



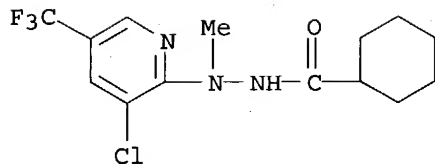
Compound
47

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 13 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-80-1 REGISTRY
CN Cyclohexanecarboxylic acid, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H17 Cl F3 N3 O
SR CA
LC STN Files: CA, CAPLUS

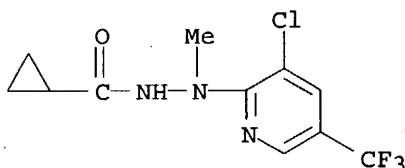


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 14 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-79-8 REGISTRY
CN Cyclopropanecarboxylic acid, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C11 H11 Cl F3 N3 O
SR CA
LC STN Files: CA, CAPLUS



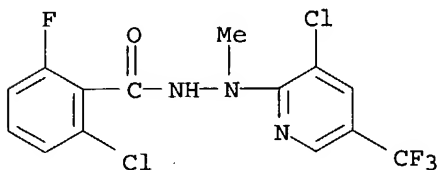
Compound
115

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 15 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-77-6 REGISTRY
CN Benzoic acid, 2-chloro-6-fluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H9 Cl2 F4 N3 O
SR CA
LC STN Files: CA, CAPLUS



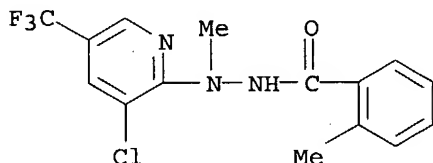
Compound
113

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 16 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-76-5 REGISTRY
CN Benzoic acid, 2-methyl-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H13 Cl F3 N3 O
SR CA
LC STN Files: CA, CAPLUS

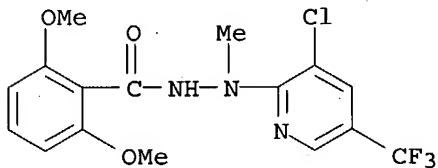


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 17 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-75-4 REGISTRY
CN Benzoic acid, 2,6-dimethoxy-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H15 Cl F3 N3 O3
SR CA
LC STN Files: CA, CAPLUS



Compound
111

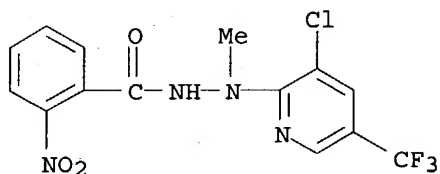
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 18 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-74-3 REGISTRY
CN Benzoic acid, 2-nitro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD

MF C14 H10 Cl F3 N4 O3
SR CA
LC STN Files: CA, CAPLUS

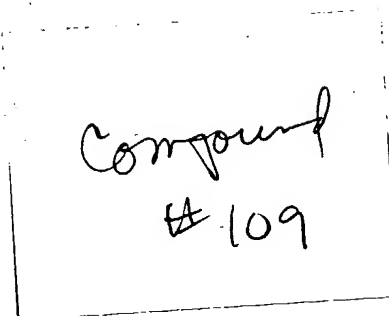
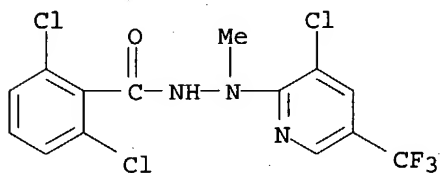


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 19 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-73-2 REGISTRY
CN Benzoic acid, 2,6-dichloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-
2-methylhydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H9 Cl3 F3 N3 O
SR CA
LC STN Files: CA, CAPLUS

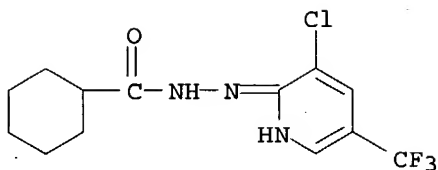


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 20 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-72-1 REGISTRY
CN Cyclohexanecarboxylic acid, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H15 Cl F3 N3 O
SR CA
LC STN Files: CA, CAPLUS

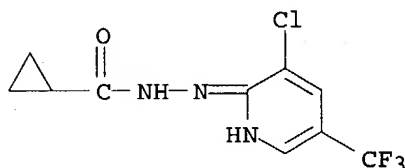


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 21 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-71-0 REGISTRY
CN Cyclopropanecarboxylic acid, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C10 H9 Cl F3 N3 O
SR CA
LC STN Files: CA, CAPLUS



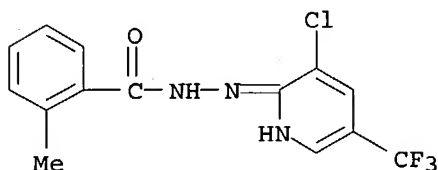
Compound
#107

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 22 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-69-6 REGISTRY
CN Benzoic acid, 2-methyl-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H11 Cl F3 N3 O
SR CA
LC STN Files: CA, CAPLUS



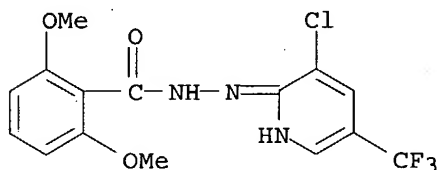
Compound
#105

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 23 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-68-5 REGISTRY
CN Benzoic acid, 2,6-dimethoxy-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H13 Cl F3 N3 O3
SR CA
LC STN Files: CA, CAPLUS, CHEMCATS

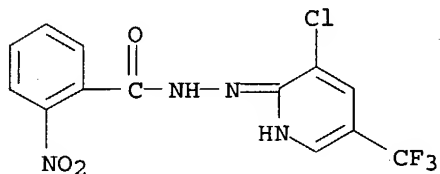


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 24 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326807-67-4 REGISTRY
CN Benzoic acid, 2-nitro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H8 Cl F3 N4 O3
SR CA
LC STN Files: CA, CAPLUS



Compound
#103

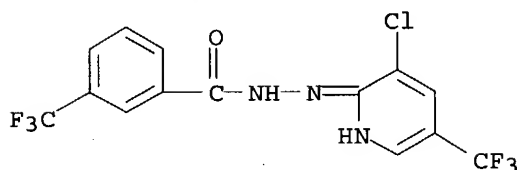
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

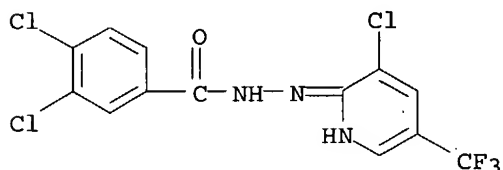
L57 ANSWER 25 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 287979-13-9 REGISTRY
CN Benzoic acid, 3-(trifluoromethyl)-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD

MF C14 H8 Cl F6 N3 O
SR CAS Client Services
LC STN Files: CHEMCATS



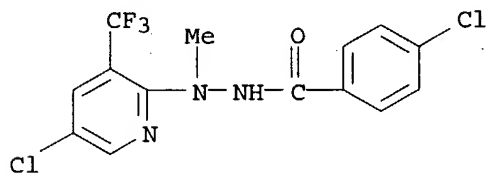
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L57 ANSWER 26 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 287979-00-4 REGISTRY
CN Benzoic acid, 3,4-dichloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H7 Cl3 F3 N3 O
SR CAS Client Services
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

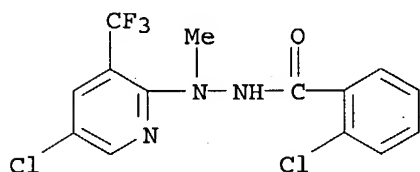
L57 ANSWER 27 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 255867-00-6 REGISTRY
CN Benzoic acid, 4-chloro-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H10 Cl2 F3 N3 O
SR CAS Client Services
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

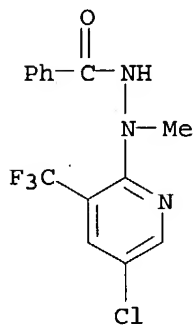
L57 ANSWER 28 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 255866-99-0 REGISTRY

CN Benzoic acid, 2-chloro-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H10 Cl2 F3 N3 O
SR CAS Client Services
LC STN Files: CHEMCATS



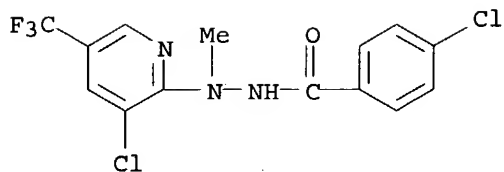
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L57 ANSWER 29 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 255866-98-9 REGISTRY
CN Benzoic acid, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H11 Cl F3 N3 O
SR CAS Client Services
LC STN Files: CHEMCATS



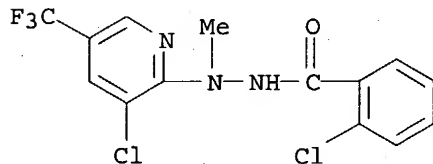
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L57 ANSWER 30 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 255866-97-8 REGISTRY
CN Benzoic acid, 4-chloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H10 Cl2 F3 N3 O
SR CAS Client Services
LC STN Files: CHEMCATS



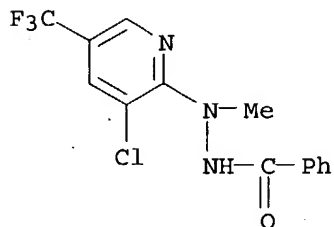
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L57 ANSWER 31 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 255866-96-7 REGISTRY
CN Benzoic acid, 2-chloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H10 Cl2 F3 N3 O
SR CAS Client Services
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

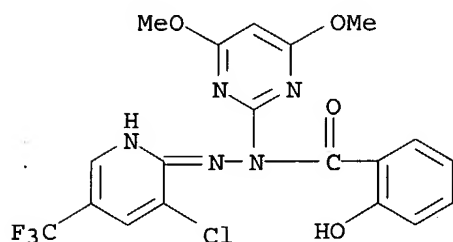
L57 ANSWER 32 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 255866-95-6 REGISTRY
CN Benzoic acid, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H11 Cl F3 N3 O
SR CAS Client Services
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L57 ANSWER 33 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 153909-12-7 REGISTRY
CN Benzoic acid, 2-hydroxy-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-1-(4,6-dimethoxy-2-pyrimidinyl)hydrazide (9CI) (CA INDEX NAME)

MF C19 H15 Cl F3 N5 O4
SR CA
LC STN Files: CA, CAPLUS

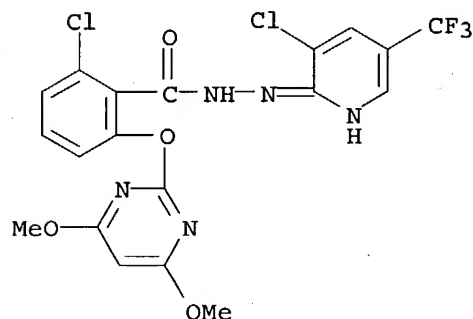


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 120:217743

L57 ANSWER 34 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 141112-83-6 REGISTRY
CN Benzoic acid, 2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H14 Cl2 F3 N5 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



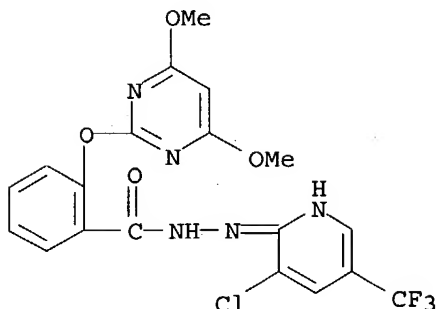
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 116:214529

L57 ANSWER 35 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 141112-65-4 REGISTRY
CN Benzoic acid, 2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H15 Cl F3 N5 O4
SR CA

LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL

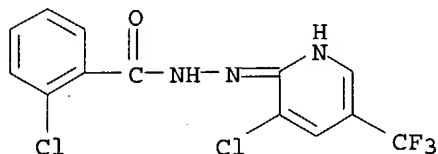


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 116:214529

L57 ANSWER 36 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 116389-04-9 REGISTRY
CN Benzoic acid, 2-chloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H8 Cl2 F3 N3 O
SR CA
LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL



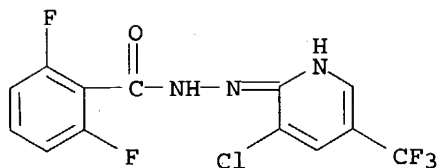
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

REFERENCE 2: 109:124419

L57 ANSWER 37 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN
RN 116389-03-8 REGISTRY
CN Benzoic acid, 2,6-difluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H7 Cl F5 N3 O
SR CA
LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 109:124419

=> d his

(FILE 'HOME' ENTERED AT 17:10:49 ON 19 FEB 2004)
SET COST OFF

FILE 'REGISTRY' ENTERED AT 17:11:06 ON 19 FEB 2004

L1 STR
L2 925618 S 46.156.30/RID AND NR>=2
L3 50 S L1 SAM SUB=L2
L4 1334 S L1 FUL SUB=L2
SAV L4 QAZI049/A
L5 STR L1
L6 50 S L5 SAM SUB=L4
L7 1166 S L5 FUL SUB=L4
SAV L7 QAZI049A/A
L8 STR
L9 STR L8
L10 0 S L8 SAM SUB=L7
L11 2 S L9 SAM SUB=L7
L12 38 S (L8 OR L9) FUL SUB=L7
SAV L12 QAZI049B/A
L13 35 S L12 AND 2/NR
L14 3 S L13 AND C13H7CL3F3N3O
SEL RN 2
L15 1 S L14 AND E1
L16 34 S L13 NOT L15
L17 12 S L7 AND 13/C AND 3/CL AND 3/F AND 3/N AND 1/O AND 2/NR
L18 7 S L17 AND C6/ES
L19 4 S L18 NOT L14

FILE 'HCAOLD' ENTERED AT 17:30:56 ON 19 FEB 2004

L20 0 S L15

FILE 'USPATFULL, USPAT2' ENTERED AT 17:31:01 ON 19 FEB 2004

L21 0 S L15

FILE 'HCAPLUS' ENTERED AT 17:31:08 ON 19 FEB 2004

L22 1 S L15
E COOKE T/AU
L23 74 S E3-E12,E34,E35
E HARDY D/AU
L24 214 S E3-E18,E23-E34
E MOLONEY B/AU
L25 16 S E5-E7
E O MAHONY M/AU

L26 41 S E3,E5,E10,E11
 E OMAHONY M/AU
 E MAHONY M/AU
 L27 9 S E3,E5
 E PETTETT M/AU
 L28 6 S E4-E6
 E PATEL G/AU
 L29 412 S E3-E19
 L30 13 S E59-E61
 E SCHNATTERER S/AU
 L31 16 S E4
 E AVENTIS/PA,CS
 L32 1977 S E3,E4
 L33 2 S L13
 L34 4 S L12
 L35 1 S L23-L32 AND L33
 L36 1 S L23-L32 AND L34
 L37 1 S (WO2000-EP8268 OR GB99-19558)/AP,PRN
 L38 1 S L23-L36 AND L37
 SEL RN

FILE 'REGISTRY' ENTERED AT 17:35:57 ON 19 FEB 2004

L39 214 S E1-E214
 L40 180 S L39 AND L4
 L41 180 S L7 AND L40
 L42 34 S L39 NOT L41
 L43 STR L1
 L44 STR L43
 L45 50 S L44 SAM SUB=L2
 L46 8306 S L44 FUL SUB=L2
 SAV L46 QAZI049C/A
 L47 190 S L39 AND L46
 L48 24 S L39 NOT L47
 L49 1 S L48 AND IDS/CI
 L50 191 S L47,L49
 L51 190 S L50 NOT L15

FILE 'HCAPLUS' ENTERED AT 17:41:47 ON 19 FEB 2004

L52 3 S L51
 L53 2 S L23-L32 AND L52
 L54 3 S L52,L53
 L55 3 S L33,L34 NOT L22
 L56 5 S L52-L55

FILE 'REGISTRY' ENTERED AT 17:45:25 ON 19 FEB 2004

FILE 'HCAPLUS' ENTERED AT 17:45:58 ON 19 FEB 2004

FILE 'REGISTRY' ENTERED AT 17:47:19 ON 19 FEB 2004

L57 37 S L12 NOT L15

=> => d his

(FILE 'HOME' ENTERED AT 18:15:21 ON 19 FEB 2004)
 SET COST OFF

FILE 'REGISTRY' ENTERED AT 18:15:29 ON 19 FEB 2004
 ACT QAZI049B/A

L1 STR
 L2 (925618)SEA FILE=REGISTRY ABB=ON PLU=ON 46.156.30/RID AND NR>=2
 L3 (1334)SEA FILE=REGISTRY SUB=L2 SSS FUL L1
 L4 STR

L5 (1166)SEA FILE=REGISTRY SUB=L3 SSS FUL L4
 L6 STR
 L7 STR
 L8 38 SEA FILE=REGISTRY SUB=L5 SSS FUL (L6 OR L7)

 L9 37 S L8 NOT 326807-66-3

FILE 'HCAOLD' ENTERED AT 18:16:30 ON 19 FEB 2004
 L10 0 S L9

FILE 'HCAPLUS' ENTERED AT 18:16:34 ON 19 FEB 2004
 L11 4 S L9

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 18:16:51 ON 19 FEB 2004
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 19 Feb 2004 VOL 140 ISS 8
 FILE LAST UPDATED: 18 Feb 2004 (20040218/ED)

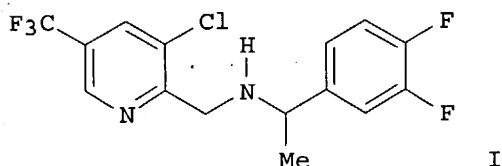
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d l11 all hitstr tot

L11 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:137193 HCAPLUS
 DN 134:178467
 ED Entered STN: 25 Feb 2001
 TI Preparation of pyridine derivatives as phytopathogenic fungicides
 IN Cooke, Tracey; Hardy, David; Moloney, Brian Anthony; O'Mahony, Mary Josephine; Pettett, Michael George; Patel, Gita; Schnatterer, Stefan
 PA Aventis CropScience GmbH, Germany
 SO PCT Int. Appl., 57 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM C07D213-61
 ICS C07D213-89; C07D405-12; C07D213-77; C07D401-12; C07D213-81;
 C07D213-64; C07D409-12; C07D417-12; C07D498-04; C07D401-06;
 A01N043-40
 CC 27-16 (Heterocyclic Compounds (One Hetero Atom))
 Section cross-reference(s): 5
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001012604	A1	20010222	WO 2000-EP8268	20000811
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,				

HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
 LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
 SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
 YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 BR 2000013369 A 20020507 BR 2000-13369 20000811
 EP 1204642 A1 20020515 EP 2000-954651 20000811
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, IE, SI,
 LT, LV, FI, RO, MK, CY, AL
 JP 2003507368 T2 20030225 JP 2001-517502 20000811
 PRAI GB 1999-19558 A 19990818
 WO 2000-EP8268 W 20000811
 OS MARPAT 134:178467
 GI



AB The title compds. A1LA2 [A1 = (un)substituted 2-pyridyl or its N-oxide;
 Ar2 = (un)substituted heterocyclcyl, carbocyclcyl; L = a 3-atom linker
 selected from CHR1NR3CHR2, NR3NR4C:X, C:XNR3CHR1, etc. (wherein A1 is
 attached to the left hand side of linker L); R1, R2 = CN, NO2, halo, etc.;
 R3, R4 = CN, NO2, alkyl, etc.; any of R1-R4, together with the
 interconnecting atoms, can form a 5-6 membered ring with any other R1-R4,
 or any R1-R4, together with the interconnecting atoms can form a 5-6
 membered ring with A2; X = O, S, N(alkyl), etc.], useful as
 phytopathogenic fungicides, were prepared Thus, reacting
 1-(3,4-difluorophenyl)-1-ethanamine with 3-chloro-5-
 (trifluoromethyl)pyridine-2-carboxaldehyde in the presence of Et3N in
 CH(OMe)3 followed by addition of NaBH3CN/THF and AcOH afforded the title
 compound I which showed moderate to total control against Leptosphaeria
 nodorum at 500 ppm or less.

ST pyridine prepn agrochem fungicide
 IT Fungicides
 (agrochem.; preparation of pyridine derivs. as phytopathogenic fungicides)

IT 326807-13-0P 326808-86-0P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except
 adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN
 (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT
 (Reactant or reagent); USES (Uses)
 (preparation of pyridine derivs. as phytopathogenic fungicides)

IT 116389-04-9P 326476-24-8P 326807-14-1P 326807-15-2P
 326807-16-3P 326807-17-4P 326807-18-5P 326807-19-6P 326807-20-9P
 326807-21-0P 326807-22-1P 326807-23-2P 326807-24-3P 326807-25-4P
 326807-26-5P 326807-27-6P 326807-28-7P 326807-29-8P 326807-30-1P
 326807-31-2P 326807-32-3P 326807-33-4P 326807-34-5P 326807-35-6P
 326807-36-7P 326807-37-8P 326807-38-9P 326807-39-0P 326807-40-3P
 326807-41-4P 326807-42-5P 326807-43-6P 326807-44-7P 326807-45-8P
 326807-46-9P 326807-47-0P 326807-48-1P 326807-49-2P 326807-50-5P
 326807-51-6P 326807-52-7P 326807-53-8P 326807-54-9P 326807-55-0P
 326807-56-1P 326807-57-2P 326807-58-3P 326807-59-4P 326807-60-7P
 326807-61-8P 326807-62-9P 326807-63-0P 326807-64-1P 326807-65-2P
 326807-66-3P 326807-67-4P 326807-68-5P
 326807-69-6P 326807-70-9P 326807-71-0P

326807-72-1P 326807-73-2P 326807-74-3P
 326807-75-4P 326807-76-5P 326807-77-6P
 326807-78-7P 326807-79-8P 326807-80-1P
 326807-81-2P 326807-82-3P 326807-83-4P
 326807-84-5P 326807-85-6P 326807-86-7P
 326807-87-8P 326807-88-9P 326807-89-0P
 326807-90-3P 326807-91-4P 326807-92-5P 326807-93-6P
 326807-94-7P 326807-95-8P 326807-96-9P 326807-97-0P 326807-98-1P
 326807-99-2P 326808-00-8P 326808-01-9P 326808-02-0P 326808-03-1P
 326808-04-2P 326808-05-3P 326808-06-4P 326808-07-5P 326808-08-6P
 326808-09-7P 326808-10-0P 326808-11-1P 326808-12-2P 326808-13-3P
 326808-14-4P 326808-15-5P 326808-16-6P 326808-17-7P 326808-18-8P
 326808-19-9P 326808-20-2P 326808-21-3P 326808-22-4P 326808-23-5P
 326808-24-6P 326808-25-7P 326808-26-8P 326808-27-9P 326808-28-0P
 326808-29-1P 326808-30-4P 326808-31-5P 326808-32-6P 326808-33-7P
 326808-34-8P 326808-35-9P 326808-36-0P 326808-37-1P 326808-38-2P
 326808-39-3P 326808-40-6P 326808-41-7P 326808-42-8P 326808-43-9P
 326808-44-0P 326808-45-1P 326808-46-2P 326808-47-3P 326808-48-4P
 326808-49-5P 326808-50-8P 326808-51-9P 326808-52-0P 326808-53-1P
 326808-54-2P 326808-55-3P 326808-56-4P 326808-57-5P 326808-58-6P
 326808-59-7P 326808-60-0P 326808-61-1P 326808-62-2P 326808-63-3P
 326808-64-4P 326808-66-6P 326808-67-7P 326808-68-8P 326808-69-9P
 326808-70-2P 326808-71-3P 326808-72-4P 326808-73-5P 326808-74-6P
 326808-75-7P 326808-76-8P 326808-77-9P 326808-78-0P 326808-79-1P
 326808-80-4P 326808-81-5P 326808-82-6P 326808-83-7P 326808-84-8P
 326808-85-9P 326808-87-1P 326808-88-2P 326808-89-3P 326808-90-6P
 326808-91-7P 326808-93-9P 326808-95-1P 326808-97-3P 326808-99-5P
 326809-00-1P 326809-01-2P 326809-02-3P 326809-03-4P 326809-04-5P
 326809-05-6P 326809-06-7P 326809-07-8P 326812-96-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of pyridine derivs. as phytopathogenic fungicides)

IT 86-55-5, 1-Naphthoic acid 89-98-5, 2-Chlorobenzaldehyde 118-91-2,
 2-Chlorobenzoic acid 608-31-1, 2,6-Dichloroaniline 614-21-1,
 2-Nitroacetophenone 1777-82-8, 2,4-Dichlorobenzyl alcohol 3034-19-3,
 2-Nitrophenylhydrazine 3886-69-9 4659-45-4, 2,6-Dichlorobenzoyl
 chloride 69045-84-7, 2,3-Dichloro-5-trifluoromethylpyridine
 70591-20-7, [(Diphenylmethylene)amino]methyl cyanide 75408-89-8,
 4-Acetylbiphenyl oxime 79456-26-1, 2-Amino-3-chloro-5-
 trifluoromethylpyridine 89570-82-1 118386-83-7 175277-50-6,
 3-Chloro-5-trifluoromethylpyridine-2-carboxaldehyde 175277-52-8,
 3-Chloro-2-(chloromethyl)-5-trifluoromethylpyridine 276875-21-9,
 1-(3,4-Difluorophenyl)-1-ethanamine 326809-08-9 326809-09-0
 326809-10-3, 2-(3-Bromo-4-methoxyphenyl)-1H-imidazole

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pyridine derivs. as phytopathogenic fungicides)

RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Agrevo Uk Ltd; GB 2307177 A 1997 HCAPLUS
- (2) Agrevo Uk Ltd; WO 9907687 A 1999 HCAPLUS
- (3) Anon; PATENT ABSTRACTS OF JAPAN 1983, V007(114), PC-166
- (4) Anon; PATENT ABSTRACTS OF JAPAN 1989, V013(379), PC-628
- (5) Anon; PATENT ABSTRACTS OF JAPAN 1990, V014(310), PC-0736
- (6) Anon; PATENT ABSTRACTS OF JAPAN 1992, V016(148), PC-0928
- (7) Anon; PATENT ABSTRACTS OF JAPAN 1995, V1995(04)
- (8) Basf Ag; EP 0350691 A 1990 HCAPLUS
- (9) Basf Ag; WO 9710215 A 1997 HCAPLUS
- (10) Bayer Ag; EP 0573883 A 1993 HCAPLUS
- (11) Briggs, G; WO 9850352 A 1998 HCAPLUS
- (12) Ciba Geigy Ag; EP 0288976 A 1988 HCAPLUS
- (13) Ciba Geigy Ag; EP 0577555 A 1994 HCAPLUS
- (14) Dow Chemical Co; GB 2068365 A 1981 HCAPLUS

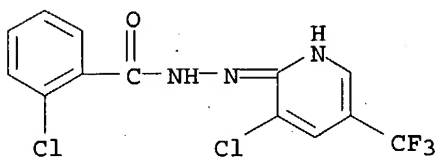
- (15) Dow Chemical Co; EP 0287691 A 1988 HCAPLUS
- (16) Hamprecht, G; WO 9842671 A 1998 HCAPLUS
- (17) Ihara Chemical Ind Co; EP 0648752 A 1995 HCAPLUS
- (18) Ishihara Sangyo Kaisha Ltd; JP 02104575 A 1990 HCAPLUS
- (19) Ishihara Sangyo Kaisha Ltd; JP 07025853 A 1995 HCAPLUS
- (20) Ishihara Sangyo Kk; JP 58035174 A 1983 HCAPLUS
- (21) Kyowa Hakko Kogyo Kk; EP 0882717 A 1998 HCAPLUS
- (22) La Roche, H; EP 0270061 A 1988 HCAPLUS
- (23) Minn; HCAPLUS
- (24) Minn; SYNLETT 1991, 2, P115 HCAPLUS
- (25) Mitsubishi Petrochem Co Ltd; JP 04005282 A 1992 HCAPLUS
- (26) Mitsui Petrochem Ind Ltd; JP 01131146 A 1989 HCAPLUS
- (27) Moloney Brian Anthony; WO 9942447 A 1999 HCAPLUS
- (28) Sumitomo Chemical Co; EP 0469711 A 1992 HCAPLUS
- (29) Sumitomo Chemical Co; EP 0648729 A 1995 HCAPLUS
- (30) Uniroyal Chem Co Inc; WO 9207848 A 1992 HCAPLUS

IT 116389-04-9P 326807-67-4P 326807-68-5P
 326807-69-6P 326807-71-0P 326807-72-1P
 326807-73-2P 326807-74-3P 326807-75-4P
 326807-76-5P 326807-77-6P 326807-79-8P
 326807-80-1P 326807-81-2P 326807-82-3P
 326807-83-4P 326807-84-5P 326807-85-6P
 326807-87-8P 326807-88-9P 326807-89-0P
 326807-90-3P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of pyridine derivs. as phytopathogenic fungicides)

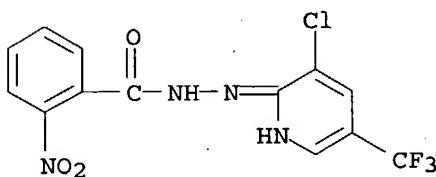
RN 116389-04-9 HCAPLUS

CN Benzoic acid, 2-chloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



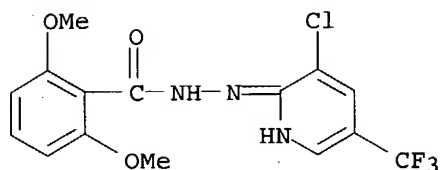
RN 326807-67-4 HCAPLUS

CN Benzoic acid, 2-nitro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



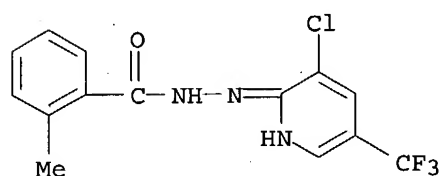
RN 326807-68-5 HCAPLUS

CN Benzoic acid, 2,6-dimethoxy-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



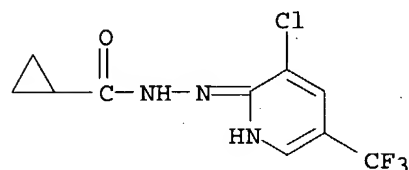
RN 326807-69-6 HCAPLUS

CN Benzoic acid, 2-methyl-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



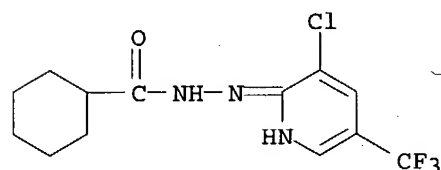
RN 326807-71-0 HCAPLUS

CN Cyclopropanecarboxylic acid, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



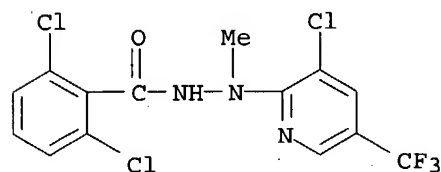
RN 326807-72-1 HCAPLUS

CN Cyclohexanecarboxylic acid, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



RN 326807-73-2 HCAPLUS

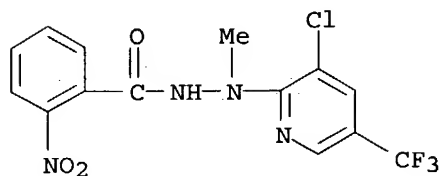
CN Benzoic acid, 2,6-dichloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)



RN 326807-74-3 HCAPLUS

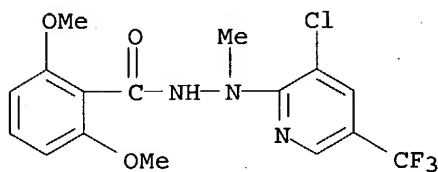
CN Benzoic acid, 2-nitro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)

methylhydrazide (9CI) (CA INDEX NAME)



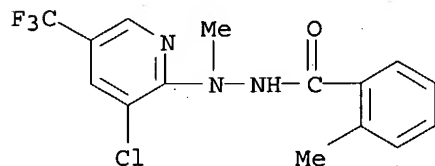
RN 326807-75-4 HCAPLUS

CN Benzoic acid, 2,6-dimethoxy-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)



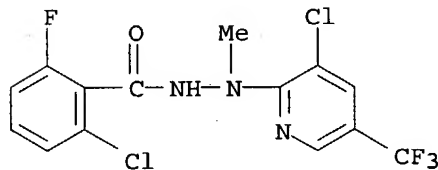
RN 326807-76-5 HCAPLUS

CN Benzoic acid, 2-methyl-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)



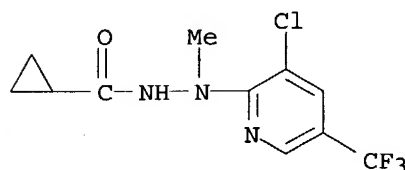
RN 326807-77-6 HCAPLUS

CN Benzoic acid, 2-chloro-6-fluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)



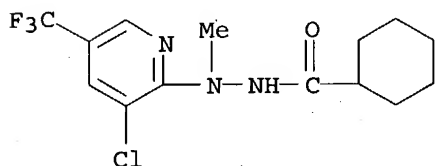
RN 326807-79-8 HCAPLUS

CN Cyclopropanecarboxylic acid, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)



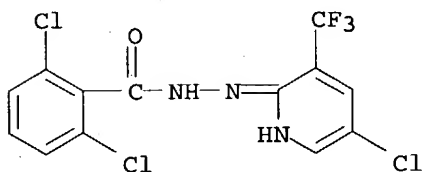
RN 326807-80-1 HCAPLUS

CN Cyclohexanecarboxylic acid, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)



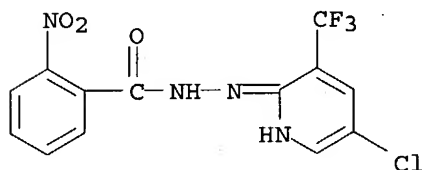
RN 326807-81-2 HCAPLUS

CN Benzoic acid, 2,6-dichloro-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



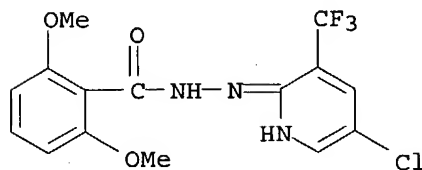
RN 326807-82-3 HCAPLUS

CN Benzoic acid, 2-nitro-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



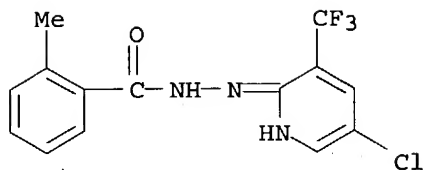
RN 326807-83-4 HCAPLUS

CN Benzoic acid, 2,6-dimethoxy-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



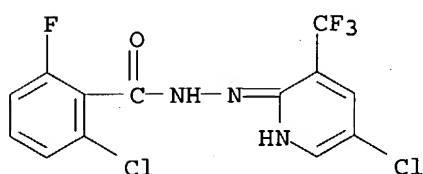
RN 326807-84-5 HCAPLUS

CN Benzoic acid, 2-methyl-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



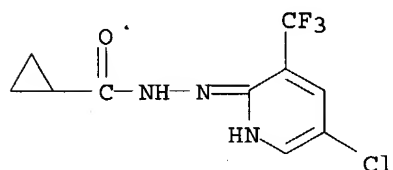
RN 326807-85-6 HCAPLUS

CN Benzoic acid, 2-chloro-6-fluoro-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



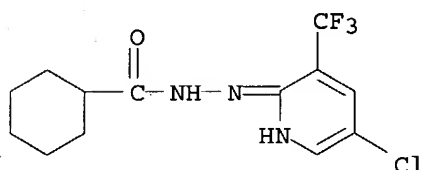
RN 326807-87-8 HCAPLUS

CN Cyclopropanecarboxylic acid, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



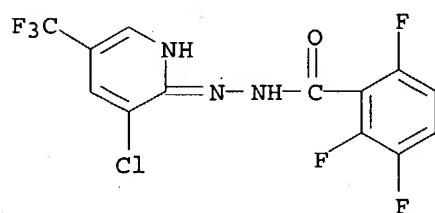
RN 326807-88-9 HCAPLUS

CN Cyclohexanecarboxylic acid, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)

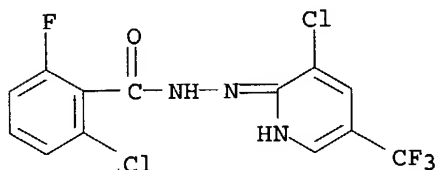


RN 326807-89-0 HCAPLUS

CN Benzoic acid, 2,3,6-trifluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



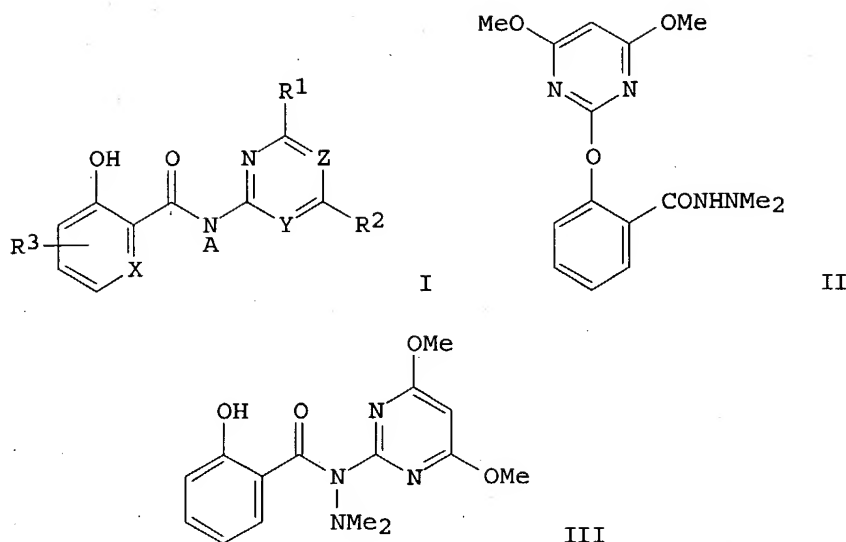
RN 326807-90-3 HCAPLUS
 CN Benzoic acid, 2-chloro-6-fluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



L11 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1994:217743 HCAPLUS
 DN 120:217743
 ED Entered STN: 30 Apr 1994
 TI Preparation of azinylhydroxybenzamides as herbicides and plant growth regulators
 IN Luethy, Christoph; Fisher, Raymond
 PA Ciba-Geigy A.-G., Switz.
 SO PCT Int. Appl., 63 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM C07D239-52
 ICS A01N043-54; C07D403-12; C07D413-12; C07D409-12; C07D251-46; C07D239-60
 CC 28-19 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9324468	A1	19931209	WO 1993-EP1264	19930521
	W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9343146	A1	19931230	AU 1993-43146	19930521
	ZA 9303815	A	19931230	ZA 1993-3815	19930601
PRAI	CH 1992-1771		19920602		
	WO 1993-EP1264		19930521		
OS	MARPAT 120:217743				
GI					



AB Title compds. [I; A = H, NR₅R₆, N:R₇R₈, OR₉; X = N, CR₄; Y = N, or if Z = N, may also = methine, fluoromethine, chloromethine; R₁ = alkyl, alkynyl, cyclopropyl, chloromethyl, F₂CH, F₃C, MeO, EtO, alkylamino, Me₂N, etc.; R₂ = H, Me, F, Cl, alkoxy, difluoromethoxy, trifluoroethoxy, MeS, EtS; R₃ = H, F, Cl, Me, MeO, EtO; R₄ = H, F, Cl, Br, iodo, alkyl, CF₃, vinyl, alkoxy, 2-propenyloxy, 2-propynyloxy, benzyloxy, PhO, triazolyl, thienyl, pyrazolyl, thienyl, etc.; R₅ = H, alkyl; R₆ = H, (substituted) alkyl, Ph, naphthyl, pyridyl, quinolyl, alkylcarbonyl, PhCO, alkylsulfonyl, PhSO₂, etc.; R₅R₆N = (substituted) heterocyclyl; R₇ = H, alkyl, alkylthio; R₈ = alkyl, cycloalkyl, (substituted) Ph, alkoxy, alkylthio, alkoxy carbonyl, cyano; R₇R₈ = (CH₂)₄₋₅, SCH₂CH₂S; R₉ = H, alkyl, alkenyl, alkynyl, carboxyalkyl, alkoxy carbonylalkyl, (substituted) PhCH₂, Ph], were prepared. Thus, ether II was stirred with NaH in THF to give title compound III. Several I at 3 kg/ha preemergent gave 80-100% control of Echinochloa crus-galli, Avena fatua, Abutilon theoplasti, etc.

ST azinylhydroxybenzamide prepn herbicide; plant growth regulator
azinylhydroxybenzamide

IT Herbicides

(azinylhydroxybenzamides)

IT Plant hormones and regulators

RL: RCT (Reactant); RACT (Reactant or reagent)

(azinylhydroxybenzamides)

IT	153908-90-8P	153908-91-9P	153908-92-0P	153908-93-1P	153908-94-2P
	153908-95-3P	153908-96-4P	153908-97-5P	153908-98-6P	153908-99-7P
	153909-00-3P	153909-01-4P	153909-02-5P	153909-03-6P	153909-04-7P
	153909-05-8P	153909-06-9P	153909-07-0P	153909-08-1P	153909-09-2P
	153909-10-5P	153909-11-6P	153909-12-7P	153909-13-8P	
	153909-14-9P	153909-15-0P	153909-16-1P	153909-17-2P	153909-18-3P
	153909-19-4P	153909-20-7P	153909-21-8P	153909-22-9P	153909-23-0P
	153909-24-1P	153909-25-2P	153909-26-3P	153909-27-4P	153909-28-5P
	153909-29-6P	153909-30-9P	153909-31-0P	153909-32-1P	153909-61-6P
	153909-62-7P				

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as herbicide and plant growth regulator)

IT	141112-44-9P	141112-46-1P	141112-49-4P	141112-50-7P	141112-51-8P
	141112-54-1P	141112-55-2P	141112-66-5P	141112-68-7P	141112-72-3P
	141112-86-9P	141112-88-1P	144078-96-6P	153909-33-2P	153909-34-3P
	153909-35-4P	153909-36-5P	153909-37-6P	153909-38-7P	153909-39-8P

153909-40-1P 153909-41-2P 153909-42-3P 153909-43-4P 153909-44-5P
 153909-45-6P 153909-46-7P 153909-47-8P 153909-48-9P 153909-49-0P
 153909-50-3P 153909-51-4P 153909-52-5P 153909-53-6P 153909-54-7P
 153909-55-8P 153909-56-9P 153909-57-0P 153909-58-1P 153909-59-2P
 153909-60-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as intermediate for azinylhydroxybenzamide herbicide and plant growth regulator)

IT 593-56-6, O-Methylhydroxylamine hydrochloride 39943-64-1 110284-78-1
 113761-79-8 141112-41-6

RL: RCT (Reactant); RACT (Reactant or reagent)

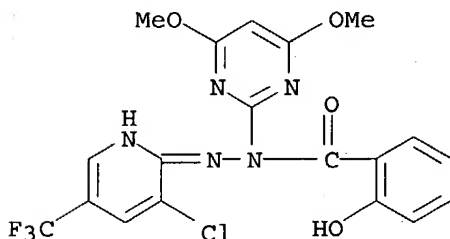
(reaction of, in preparation of azinylhydroxybenzamide herbicide and plant growth regulator)

IT 153909-12-7P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of, as herbicide and plant growth regulator)

RN 153909-12-7 HCAPLUS

CN Benzoic acid, 2-hydroxy-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-1-(4,6-dimethoxy-2-pyrimidinyl)hydrazide (9CI) (CA INDEX NAME)



L11 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1992:214529 HCAPLUS

DN 116:214529

ED Entered STN: 31 May 1992

TI Preparation of [(pyrimidin-2-yl)oxy]benzohydrazides and analogs as herbicides

IN Hiratsuka, Mitsunori; Hirata, Naonori; Saitoh, Kazuo; Shibata, Hideyuki

PA Sumitomo Chemical Co., Ltd., Japan

SO Eur. Pat. Appl., 83 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C07D239-60

ICS C07D239-34; C07D239-38; C07D401-12; A01N043-54; C07D413-12;
 C07D413-14

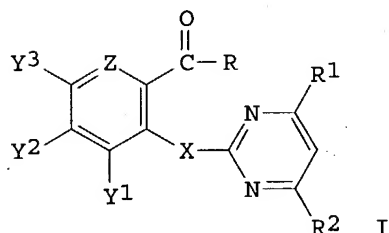
CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 469711	A1	19920205	EP 1991-305672	19910624
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
	JP 05004971	A2	19930114	JP 1991-173257	19910617
	AU 9179136	A1	19920109	AU 1991-79136	19910620
	AU 638840	B2	19930708		
	CA 2046206	AA	19920106	CA 1991-2046206	19910704
	BR 9102835	A	19920204	BR 1991-2835	19910704
	US 5135563	A	19920804	US 1991-726218	19910705

PRAI JP 1990-178967 19900705
 JP 1991-124816 19910426
 OS MARPAT 116:214529
 GI



AB The title compds. [I; R1, R2 = C1-6 alkyl, (halo)C1-6 alkoxy, halo; X = O, S; Z = N, CY4; Y1-Y3 = H, halo, C1-6 alkyl, C1-6 alkoxy; Y4 = H, HO, HS, NO2, halo, C1-6 alkyl, etc.] [II; R = NR3NR4R5; R3 = H, C1-6 alkyl, (un)substituted Ph; R4, R5 = H, C1-6 alkyl, (halo)C1-6 alkoxy, (un)substituted Ph, PhCH2, (un)substituted pyridyl, etc.] were prepared by amidation of the parent carboxylic acids (II; R = OH). Thus, a prestirred mixture of 1.10 g 2-(4,6-dimethoxypyrimidin-2-yl)oxybenzoic acid and 0.77 g N,N'-carbonyldiimidazole in 10 mL THF was treated at 0°-5° by 0.72 g hydrazine monohydrate and the whole stirred for 30 min at that temperature to give 0.95 g title compound (I; R1 = R2 = MeO, Y1 = Y2 = Y3 = H, X = O, Z = CH) (III; R = NHNH2). The latter at 2.5 g/a in a flooding treatment test in paddy field had activity 4 (the highest activity being 5 on a 0-5 scale) against barnyardgrass, bulrush and arrowhead, vs. activity 0 for the structural analog III (R = NH2). Approx. 62 I were prepared and 2 specific I are claimed.

ST pyrimidinyloxybenzohydrazide prepn herbicide; amidation
 dimethoxypyrimidinyloxybenzoate hydrazine herbicide prepn

IT Herbicides
 ((pyrimidin-2-yl)oxy]benzohydrazides and analogs)

IT 7803-57-8, Hydrazine monohydrate 32957-26-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (amidation by, of (pyrimidinyloxy)benzoic acid derivative, in preparation of herbicide)

IT 113761-80-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (amidation of, by aminooxazolidinone, in preparation of herbicide)

IT 110284-78-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (amidation of, by hydrazine, in preparation of herbicide)

IT 141112-93-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as herbicide)

IT 136187-62-7P 136187-63-8P 136187-64-9P 141112-38-1P 141112-39-2P
 141112-40-5P 141112-41-6P 141112-42-7P 141112-43-8P 141112-44-9P
 141112-45-0P 141112-46-1P 141112-47-2P 141112-48-3P 141112-49-4P
 141112-50-7P 141112-51-8P 141112-52-9P 141112-53-0P 141112-54-1P
 141112-55-2P 141112-56-3P 141112-57-4P 141112-58-5P 141112-59-6P
 141112-60-9P 141112-61-0P 141112-62-1P 141112-63-2P 141112-64-3P
 141112-65-4P 141112-66-5P 141112-67-6P 141112-68-7P
 141112-69-8P 141112-70-1P 141112-71-2P 141112-72-3P 141112-73-4P
 141112-74-5P 141112-75-6P 141112-76-7P 141112-77-8P 141112-78-9P
 141112-79-0P 141112-80-3P 141112-81-4P 141112-82-5P
 141112-83-6P 141112-84-7P 141112-85-8P 141112-86-9P
 141112-87-0P 141112-88-1P 141112-89-2P 141112-90-5P 141112-91-6P

141112-92-7P 141126-07-0P 141126-08-1P

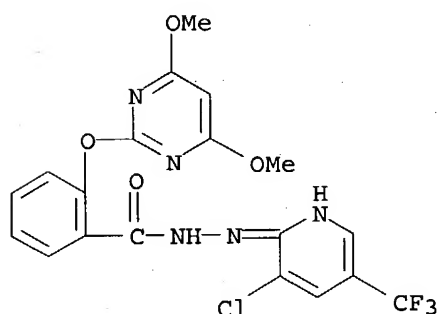
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

IT 141112-65-4P 141112-83-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

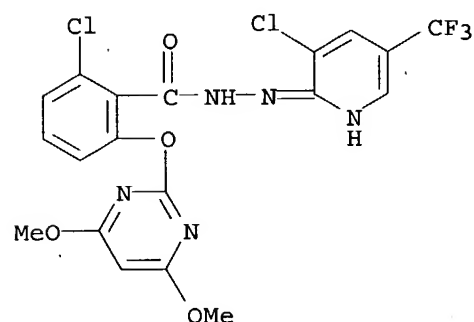
RN 141112-65-4 HCAPLUS

CN Benzoic acid, 2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



RN 141112-83-6 HCAPLUS

CN Benzoic acid, 2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



L11 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:524419 HCAPLUS

DN 109:124419

ED Entered STN: 14 Oct 1988

TI Preparation of five-membered heterocycles with three heteroatoms, as pesticides

IN Luethy, Christoph

PA Hoffmann-La Roche, F., und Co. A.-G., Switz.

SO Eur. Pat. Appl., 59 pp.

CODEN: EPXXDW

DT Patent

LA German

IC ICM C07D271-10

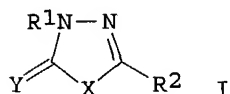
ICS C07D413-04; C07D249-12; C07D285-12; A01N043-653; A01N043-82

CC 5-4 (Agrochemical Bioregulators)

Section cross-reference(s): 1, 28

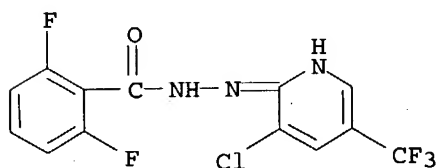
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 270061	A2	19880608	EP 1987-117698	19871130
	EP 270061	A3	19881117		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL				
	DK 8705709	A	19880602	DK 1987-5709	19871030
	ZA 8708811	A	19880727	ZA 1987-8811	19871124
	HU 45850	A2	19880928	HU 1987-5338	19871127
	JP 63154678	A2	19880627	JP 1987-303067	19871130
	BR 8706464	A	19880712	BR 1987-6464	19871130
	AU 8782036	A1	19880602	AU 1987-82036	19871201
	AU 602372	B2	19901011		
	US 4943583	A	19900724	US 1987-126804	19871201
PRAI	CH 1986-4785		19861201		
	CH 1987-3571		19870916		
OS	MARPAT 109:124419				
GI					

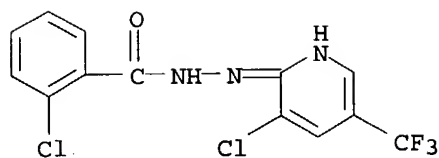


- AB The title heterocycles I [R1 = (un)substituted Ph or pyridyl; R2 = substituted Ph; X = O, S, NR3, Y = S, O; R3 = Me, halomethyl, 1-propynyl] are prepared as insecticides and acaricides (no data). A mixture of 2-chloro-6-fluoro-N'-(α,α,α -trifluoro-o-tolyl)benzhydrazide, phosgene and toluene was refluxed for 16 h to give 5-(2-chloro-6-fluorophenyl)-3-(α,α,α -trifluoro-o-tolyl)-1,3,4-oxadiazol-2(3H)one. An emulsion concentrate comprised I 250, N-methyl-2-pyrrolidone 400, Ankopal N-100 75, and Ca dodecylbenzenesulfonate 25 g and Solvesso-100 to 1L.
- ST pesticide oxadiazolone triazolone thiadiazolone prepn
- IT Pesticides
(heterocycles with 3-heteroatoms, preparation of)
- IT 75-44-5, Phosgene 463-71-8, Thiophosgene 503-38-8, Trichloromethyl chloroformate, 541-41-3, Ethyl chloroformate
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization by, of benzhydrazide derivative)
- IT 107510-93-0P 107511-09-1P 107511-52-4P 116370-09-3P 116370-10-6P
116370-11-7P 116370-12-8P 116388-94-4P 116388-95-5P 116388-96-6P
116388-97-7P 116388-98-8P 116388-99-9P 116389-00-5P 116389-01-6P
116389-02-7P 116389-03-8P 116389-04-9P 116389-05-0P
116389-06-1P 116389-07-2P 116389-08-3P 116389-09-4P 116389-10-7P
116389-11-8P 116389-12-9P 116389-13-0P 116389-14-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
- IT 116370-10-6P 116370-13-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of, with Et chloroformate)
- IT 107511-52-4P 116370-12-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of, with phosgene)
- IT 116370-13-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

- (Reactant or reagent)
(preparation and cyclization of, with thiophosgene)
- IT 116370-09-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and cyclization of, with trichloromethyl chloroformate)
- IT 107511-03-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and methylation of)
- IT 116370-14-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
- IT 116369-81-4P 116369-82-5P 116369-83-6P 116369-84-7P 116369-85-8P
116369-86-9P 116369-87-0P 116369-88-1P 116369-89-2P 116369-90-5P
116369-91-6P 116369-92-7P 116369-93-8P 116369-94-9P 116369-95-0P
116369-96-1P 116369-97-2P 116369-98-3P 116369-99-4P 116370-00-4P
116370-01-5P 116370-02-6P 116370-03-7P 116370-04-8P 116370-05-9P
116370-06-0P 116370-07-1P 116370-08-2P 116370-15-1P 116400-41-0P
116400-42-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except
adverse); BSU (Biological study, unclassified); SPN (Synthetic
preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as pesticide)
- IT 41052-75-9, 2-Chlorophenylhydrazine hydrochloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chlorofluorobenzoyl chloride)
- IT 79455-63-3, 2-Chloro-6-fluorobenzoyl chloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chlorophenylhydrazine)
- IT 365-34-4, o-Trifluoromethylphenylhydrazine
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with difluorobenzoyl chloride)
- IT 3107-34-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with difluorobenzoyl fluoride)
- IT 18063-02-0, 2,6-Difluorobenzoyl chloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with trifluoromethylphenylhydrazine)
- IT 13656-41-2, 2,6-Difluorobenzoyl fluoride
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with trifluorotolylhydrazine)
- IT 116389-03-8P 116389-04-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and cyclization of)
- RN 116389-03-8 HCAPLUS
CN Benzoic acid, 2,6-difluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-
pyridinyl]hydrazide (9CI) (CA INDEX NAME)



- RN 116389-04-9 HCAPLUS
CN Benzoic acid, 2-chloro-, 2-[3-chloro-5-(trifluoromethyl)-2-
pyridinyl]hydrazide (9CI) (CA INDEX NAME)



=> => fil reg

FILE 'REGISTRY' ENTERED AT 18:35:32 ON 19 FEB 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6

DICTIONARY FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

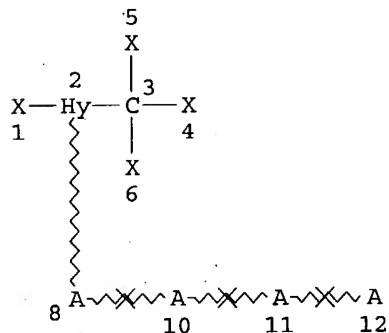
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sta que l35

L12 (925618)SEA FILE=REGISTRY ABB=ON PLU=ON 46.156.30/RID AND NR>=2

L13 STR



NODE ATTRIBUTES:

NSPEC IS R AT 12

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 2

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E5 C E1 N AT 2

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L14 8306 SEA FILE=REGISTRY SUB=L12 SSS FUL L13
L20 STR

C-X-C-X-C~Cy
@11 12 13 32

C-X-N-X-C~Cy
@14 15 16 33

N-X-N-X-C~Cy
@17 18 19 34

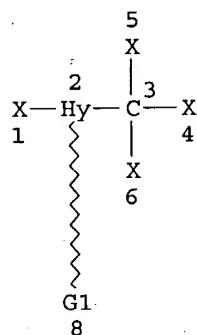
O-X-N-X-C~Cy
@20 21 22 38

C-X-O-X-C~Cy
@23 24 25 35

N-X-C-X-N~Cy
@26 27 28 36

N-X-C-X-C~Cy
@29 30 31 37

C-X-N-X-N~Cy
@39 40 41 42



C-X-C-X-C-X-A
@43 44 45 46

C-X-O-X-C-X-A
@47 48 49 50

C-X-N-X-C-X-A
@51 52 53 54

N-X-C-X-N-X-A
@55 56 57 58

N-X-N-X-C-X-A
@59 60 61 62

N-X-C-X-C-X-A
@63 64 65 66

O-X-N-X-C-X-A
@67 68 69 70

C-X-N-X-N-X-A
@71 72 73 74

VAR G1=11/43/23/47/14/51/26/55/17/59/29/63/20/67/39/71

NODE ATTRIBUTES:

NSPEC IS R AT 46
NSPEC IS R AT 50
NSPEC IS R AT 54
NSPEC IS R AT 58
NSPEC IS R AT 62
NSPEC IS R AT 66
NSPEC IS R AT 70
NSPEC IS R AT 74

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 2

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E5 C E1 N AT 2

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

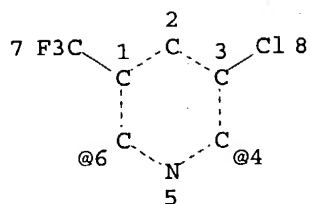
NUMBER OF NODES IS 71

STEREO ATTRIBUTES: NONE

L22 4504 SEA FILE=REGISTRY SUB=L14 SSS FUL L20

L23 4339 SEA FILE=REGISTRY ABB=ON PLU=ON L22 AND 1/NC

L33 STR



G1~A~A~A~A~A
21 9 10 11 12

VAR G1=4/6

NODE ATTRIBUTES:

NSPEC IS R AT 12

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L35 3862 SEA FILE=REGISTRY SUB=L23 SSS FUL L33

100.0% PROCESSED 3979 ITERATIONS

3862 ANSWERS

SEARCH TIME: 00.00.01

=> d his

(FILE 'HOME' ENTERED AT 18:15:21 ON 19 FEB 2004)
SET COST OFF

FILE 'REGISTRY' ENTERED AT 18:15:29 ON 19 FEB 2004
ACT QAZI049B/A

```

L1      STR
L2 (    925618)SEA FILE=REGISTRY ABB=ON PLU=ON 46.156.30/RID AND NR>=2
L3 (    1334)SEA FILE=REGISTRY SUB=L2 SSS FUL L1
L4      STR
L5 (    1166)SEA FILE=REGISTRY SUB=L3 SSS FUL L4
L6      STR
L7      STR
L8      38 SEA FILE=REGISTRY SUB=L5 SSS FUL (L6 OR L7)
L9      37 S L8 NOT 326807-66-3

```

FILE 'HCAOLD' ENTERED AT 18:16:30 ON 19 FEB 2004
L10 0 S L9

FILE 'HCAPLUS' ENTERED AT 18:16:34 ON 19 FEB 2004
L11 4 S L9

FILE 'HCAPLUS' ENTERED AT 18:16:51 ON 19 FEB 2004

FILE 'REGISTRY' ENTERED AT 18:17:29 ON 19 FEB 2004
ACT QAZI049C/A

```

L12 (    925618)SEA FILE=REGISTRY ABB=ON PLU=ON 46.156.30/RID AND NR>=2
L13      STR
L14      8306 SEA FILE=REGISTRY SUB=L12 SSS FUL L13

```

ACT QAZI049A/A

L15 STR
L16 (925618)SEA FILE=REGISTRY ABB=ON PLU=ON 46.156.30/RID AND NR>=2
L17 (1334)SEA FILE=REGISTRY SUB=L16 SSS FUL L15
L18 STR
L19 1166 SEA FILE=REGISTRY SUB=L17 SSS FUL L18

L20 STR L18
L21 50 S L20 SAM SUB=L14
L22 4504 S L20 FUL SUB=L14
SAV L22 QAZI049D/A
L23 4339 S L22 AND 1/NC

FILE 'HCAPLUS' ENTERED AT 18:24:46 ON 19 FEB 2004

L24 727 S L23
L25 323 S L23 (L) AGR/RL
L26 215 S L24 AND AGR?/SC
L27 382 S L25,L26
L28 132 S L27 AND US/PC
L29 118 S L28 AND (PD<=19990818 OR PRD<=19990818 OR AD<=19990818)

FILE 'REGISTRY' ENTERED AT 18:27:30 ON 19 FEB 2004

L30 4313 S L23 AND F>=3
L31 4228 S L30 AND CL>=1

FILE 'HCAPLUS' ENTERED AT 18:27:50 ON 19 FEB 2004

L32 114 S L31 AND L29

FILE 'REGISTRY' ENTERED AT 18:28:25 ON 19 FEB 2004

L33 STR L6
L34 50 S L33 SAM SUB=L23
L35 3862 S L33 FUL SUB=L23
SAV L35 QAZI049E/A

FILE 'HCAPLUS' ENTERED AT 18:31:21 ON 19 FEB 2004

L36 100 S L35 AND L29

FILE 'REGISTRY' ENTERED AT 18:32:21 ON 19 FEB 2004

L37 2023 S L35 AND NR>=3

FILE 'HCAPLUS' ENTERED AT 18:32:48 ON 19 FEB 2004

L38 42 S L37 AND L36
L39 41 S L38 NOT 2001:136944/AN

FILE 'REGISTRY' ENTERED AT 18:35:32 ON 19 FEB 2004

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 18:35:42 ON 19 FEB 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

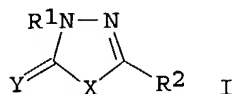
FILE COVERS 1907 - 19 Feb 2004 VOL 140 ISS 8
 FILE LAST UPDATED: 18 Feb 2004 (20040218/ED)

This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> d 139 40 all hitstr

L39 ANSWER 40 OF 41 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1988:524419 HCAPLUS
 DN 109:124419
 ED Entered STN: 14 Oct 1988
 TI Preparation of five-membered heterocycles with three heteroatoms, as
 pesticides
 IN Luethy, Christoph
 PA Hoffmann-La Roche, F., und Co. A.-G., Switz.
 SO Eur. Pat. Appl., 59 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 IC ICM C07D271-10
 ICS C07D413-04; C07D249-12; C07D285-12; A01N043-653; A01N043-82
 CC 5-4 (Agrochemical Bioregulators)
 Section cross-reference(s): 1, 28
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 270061	A2	19880608	EP 1987-117698	19871130 <--
	EP 270061	A3	19881117		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL				
	DK 8705709	A	19880602	DK 1987-5709	19871030 <--
	ZA 8708811	A	19880727	ZA 1987-8811	19871124 <--
	HU 45850	A2	19880928	HU 1987-5338	19871127 <--
	JP 63154678	A2	19880627	JP 1987-303067	19871130 <--
	BR 8706464	A	19880712	BR 1987-6464	19871130 <--
	AU 8782036	A1	19880602	AU 1987-82036	19871201 <--
	AU 602372	B2	19901011		
	US 4943583	A	19900724	US 1987-126804	19871201 <--
PRAI	CH 1986-4785		19861201	<--	
	CH 1987-3571		19870916	<--	
OS	MARPAT 109:124419				
GI					



AB The title heterocycles I [R1 = (un)substituted Ph or pyridyl; R2 = substituted Ph; X = O, S, NR3; Y = S, O; R3 = Me, halomethyl, 1-propynyl] are prepared as insecticides and acaricides (no data). A mixture of 2-chloro-6-fluoro-N'-(α,α,α -trifluoro-o-tolyl)benzhydrazide, phosgene and toluene was refluxed for 16 h to give 5-(2-chloro-6-fluorophenyl)-3-(α,α,α -trifluoro-o-tolyl)-1,3,4-oxadiazol-2(3H)one. An emulsion concentrate comprised I 250, N-methyl-2-pyrrolidone 400, Ankopal N-100 75, and Ca dodecylbenzenesulfonate 25 g and Solvesso-100 to 1L.
 ST pesticide oxadiazolone triazolone thiadiazolone prepn

IT Pesticides
(heterocycles with 3-heteroatoms, preparation of)

IT 75-44-5, Phosgene 463-71-8, Thiophosgene 503-38-8, Trichloromethyl
chloroformate 541-41-3, Ethyl chloroformate
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization by, of benzhydrazide derivative)

IT 107510-93-0P 107511-09-1P 107511-52-4P 116370-09-3P 116370-10-6P
116370-11-7P 116370-12-8P 116388-94-4P 116388-95-5P 116388-96-6P
116388-97-7P 116388-98-8P 116388-99-9P 116389-00-5P 116389-01-6P
116389-02-7P 116389-03-8P 116389-04-9P 116389-05-0P
116389-06-1P 116389-07-2P 116389-08-3P 116389-09-4P 116389-10-7P
116389-11-8P 116389-12-9P 116389-13-0P 116389-14-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and cyclization of)

IT 116370-10-6P 116370-13-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and cyclization of, with Et chloroformate)

IT 107511-52-4P 116370-12-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and cyclization of, with phosgene)

IT 116370-13-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and cyclization of, with thiophosgene)

IT 116370-09-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and cyclization of, with trichloromethyl chloroformate)

IT 107511-03-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and methylation of)

IT 116370-14-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT 116369-81-4P 116369-82-5P 116369-83-6P 116369-84-7P 116369-85-8P
116369-86-9P 116369-87-0P 116369-88-1P 116369-89-2P 116369-90-5P
116369-91-6P 116369-92-7P 116369-93-8P 116369-94-9P 116369-95-0P
116369-96-1P 116369-97-2P 116369-98-3P 116369-99-4P
116370-00-4P 116370-01-5P 116370-02-6P 116370-03-7P 116370-04-8P
116370-05-9P 116370-06-0P 116370-07-1P 116370-08-2P 116370-15-1P
116400-41-0P 116400-42-1P
RL: AGR (Agricultural use); BAC (Biological activity or
effector, except adverse); BSU (Biological study, unclassified); SPN
(Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(preparation of, as pesticide)

IT 41052-75-9, 2-Chlorophenylhydrazine hydrochloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chlorofluorobenzoyl chloride)

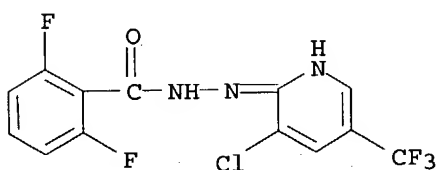
IT 79455-63-3, 2-Chloro-6-fluorobenzoyl chloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chlorophenylhydrazine)

IT 365-34-4, o-Trifluoromethylphenylhydrazine
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with difluorobenzoyl chloride)

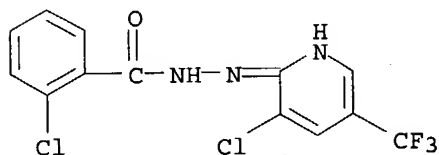
IT 3107-34-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with difluorobenzoyl fluoride)

IT 18063-02-0, 2,6-Difluorobenzoyl chloride

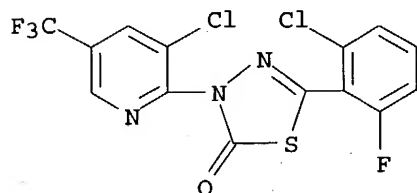
- RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with trifluoromethylphenylhydrazine)
- IT 13656-41-2, 2,6-Difluorobenzoyl fluoride
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with trifluorotolylhydrazine)
- IT 116389-03-8P 116389-04-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and cyclization of)
- RN 116389-03-8 HCAPLUS
CN Benzoic acid, 2,6-difluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



- RN 116389-04-9 HCAPLUS
CN Benzoic acid, 2-chloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)

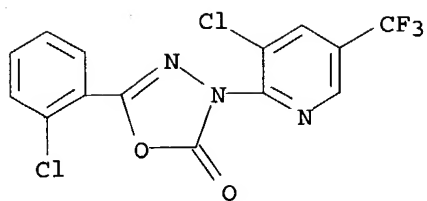


- IT 116369-97-2P 116369-98-3P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as pesticide)
- RN 116369-97-2 HCAPLUS
CN 1,3,4-Thiadiazol-2(3H)-one, 5-(2-chloro-6-(trifluoromethyl)-2-pyridinyl)- (9CI) (CA



- RN 116369-98-3 HCAPLUS
CN 1,3,4-Oxadiazol-2(3H)-one, 5-(2-chlorophenyl)-3-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)

see definitions
claim 1



=>